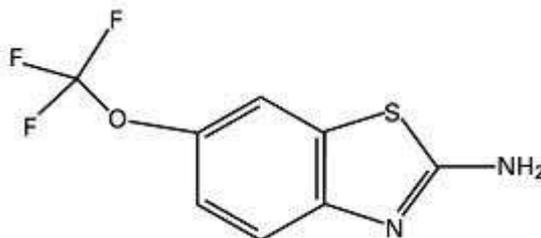


**APO-RILUZOLE TABLETS****NAME OF THE MEDICINE**

Riluzole

Chemical Name: 2-amino-6-trifluoromethoxybenzothiazole.

Structural Formula:

Molecular Formula:  $C_8H_5F_3N_2OS$ 

Molecular Weight: 234.2

CAS Registry Number: 1744-22-5

**DESCRIPTION**

Riluzole is a white to slightly yellow, fine crystalline, non-hygroscopic powder. It is very slightly soluble in water and 0.1N sodium hydroxide, sparingly soluble in 0.1N hydrochloric acid; and very soluble in methanol, acetone, acetonitrile, dichloromethane and dimethyl sulfoxide.

**PHARMACOLOGY****Pharmacodynamic Properties**

The aetiology and pathogenesis of amyotrophic lateral sclerosis (ALS) are not known, although a number of hypotheses have been advanced. One hypothesis is that motor neurones made vulnerable through either genetic predisposition or environmental factors, are injured by glutamate. In some cases of familial ALS, enzyme superoxide dismutase has been found to be defective.

The mechanism of action of riluzole has not been completely elucidated but evidence to date suggests that it may involve inactivation of voltage dependent sodium channels and impairment of glutamatergic neurotransmission.

There are no validated animal models of ALS in which to test riluzole. Riluzole has been shown to cross the blood brain barrier and to possess neuroprotective properties in various in vivo experimental models of neuronal injury known to involve excitotoxic mechanisms, such as cerebral ischemia. In vitro, riluzole protects cultured rat motoneurons from the excitotoxic effects of glutamic acid and prevents the death of cortical neurones induced by anoxia. In healthy volunteers at therapeutic doses, riluzole has been shown to protect to some extent against the hypobaric hypoxia induced at an equivalent altitude of 5000 m. Also, riluzole moderately reduces the cerebral metabolic rate of glucose as shown by PET-scan.

Due to its blockade of glutamatergic neurotransmission, riluzole also has myorelaxant and sedative properties in animal studies at doses of 30 mg/kg (about 20 times the human recommended daily dose) and anticonvulsant properties at doses of 2.5 mg/kg (about 2 times the human recommended daily dose).

## Pharmacokinetics

The pharmacokinetics of riluzole have been evaluated in healthy male volunteers after single oral administration of 25 to 300 mg and after multiple-dose oral administration of 25 to 100 mg bid.

Plasma levels increase linearly with the dose and the pharmacokinetic profile is dose-independent. Steady-state plasma levels are reached within 3 to 8 days.

### Absorption

Riluzole is rapidly absorbed after oral administration with maximal plasma concentrations occurring within 60 to 90 minutes ( $C_{max} = 173 \pm 72$  (sd) ng/ml). About 90% of the dose is absorbed and the absolute bioavailability is  $60 \pm 18\%$ . With multiple dose administration (10 day treatment at 50mg riluzole bid), unchanged riluzole accumulates in plasma by about 2 fold and steady-state is reached in less than 5 days.

The rate and extent of absorption is reduced when riluzole is administered with high-fat meals

(decrease in  $C_{max}$  of 44%, decrease in AUC of 17%).

### Distribution

Riluzole is extensively distributed throughout the body and has been shown to cross the blood brain barrier. The volume of distribution of riluzole is about  $245 \pm 69L$  (3.4 L/kg). Riluzole is about 97% protein bound and it binds mainly to serum albumin and to lipoproteins.

### Metabolism

Riluzole is extensively metabolized to six major and a number of minor metabolites, not all of which have been identified. Some metabolites appear pharmacologically active in *in vitro* assays. The metabolism of riluzole is mostly hepatic and consists of cytochrome P450-dependent hydroxylation and glucuronidation.

There is marked interindividual variability in the clearance of riluzole, probably attributable to variability of CYP 1A2 activity, the principal isozyme involved in N-hydroxylation.

In vitro studies using liver microsomes show that hydroxylation of the primary amine group producing N-hydroxyriluzole is the main metabolic pathway in human, monkey, dog and rabbit. In humans, cytochrome P450 1A2 is the principal isozyme involved in N-hydroxylation. In vitro studies predict that CYP 2D6, CYP 2C19, CYP 3A4 and CYP 2E1 are unlikely to contribute significantly to riluzole metabolism in humans. Whereas direct glucuroconjugation of riluzole (involving the glucurotransferase isoform UGT-HP4) is very slow in human liver microsomes, N-hydroxyriluzole is readily conjugated at the hydroxylamine group resulting in the formation of O- (>90%) and N-glucuronides.

### Elimination

The elimination half-life ranges from 9 to 15 hours. Riluzole is eliminated mainly in the urine. The overall urinary excretion accounts for about 90% of the dose. Glucuronides accounted for more than 85% of the metabolites in the urine. Only 2% of a riluzole dose was recovered unchanged in the urine.

### Special populations

*Elderly.* The pharmacokinetics of riluzole in elderly subjects were compared to young healthy subjects and no clinically significant differences were found.

*Gender:* No gender effect on the pharmacokinetics of riluzole was found, however CYP 1A2 activity has been reported to be lower in women than in men and thus a higher blood concentration of riluzole and its metabolites is possible in women.

*Smoking:* Cigarette smoking is known to induce CYP 1A2 and thus it is possible that patients who smoke may eliminate riluzole faster. There is no information available on the effect or need for dosage adjustment.

*Race:* Clearance of riluzole in native Japanese subjects was found to be 50% lower compared to Caucasian subjects (after normalizing for body weight). Although it is not clear if this difference is due to genetic or environmental factors (eg. smoking, alcohol, coffee and dietary preferences) it is possible that Japanese subjects may possess a lower capacity (oxidative and/or conjugative) for metabolising riluzole. There are no studies, however, of lower doses in Japanese subjects.

*Children:* the safety and efficacy of riluzole in children has not been studied.

*Renal impairment:* Study results showed that the pharmacokinetic profile of a single dose of riluzole is similar between patients with moderate or severe chronic renal insufficiency (creatinine clearance between 10 and 50 mL/min) and healthy subjects. A multiple dose study in renally impaired patients has not been performed.

*Hepatic impairment:* The AUC of riluzole after a single oral dose of 50mg increases by about 1.7 fold in patients with mild chronic liver insufficiency and by about 3 fold in patients with moderate chronic liver insufficiency. Refer to Contraindications and Precautions sections.

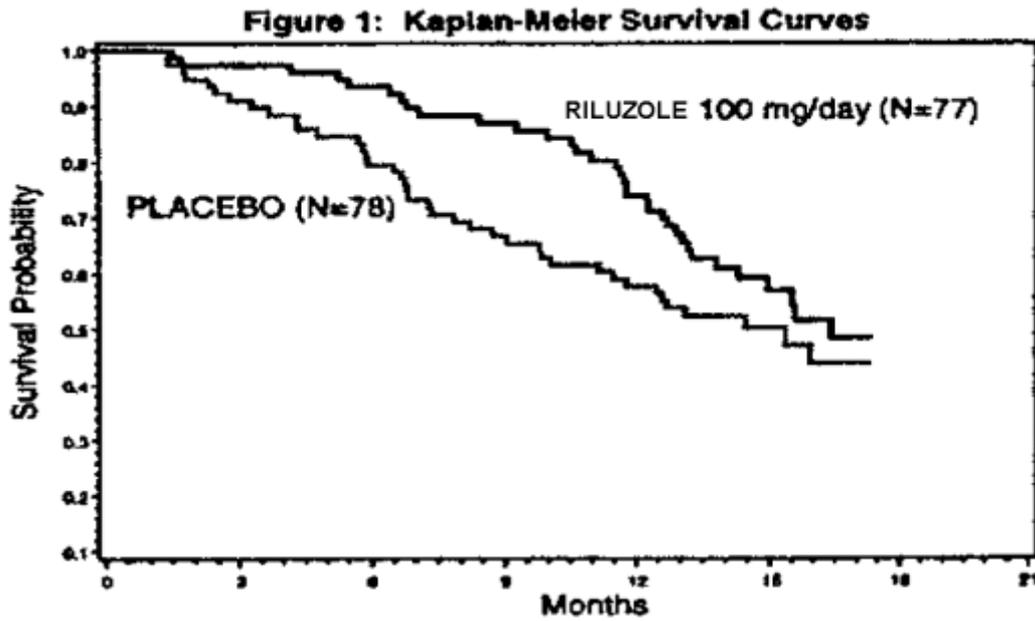
## **CLINICAL TRIALS**

Two multinational, multicenter, double-blind, parallel group trials have demonstrated that Riluzole extends survival for patients with ALS regardless of the onset type. It is also concluded that the survival benefit is maintained.

In a first trial, 155 patients were randomised to riluzole 100 mg/day (50 mg twice daily) or placebo and were followed-up for 12 to 21 months. While there was no change from baseline in the functional evaluation, survival was significantly prolonged for patients who received riluzole as compared to patients who received placebo. The median survival time was 17.7 months versus 14.9 months for riluzole and placebo respectively.

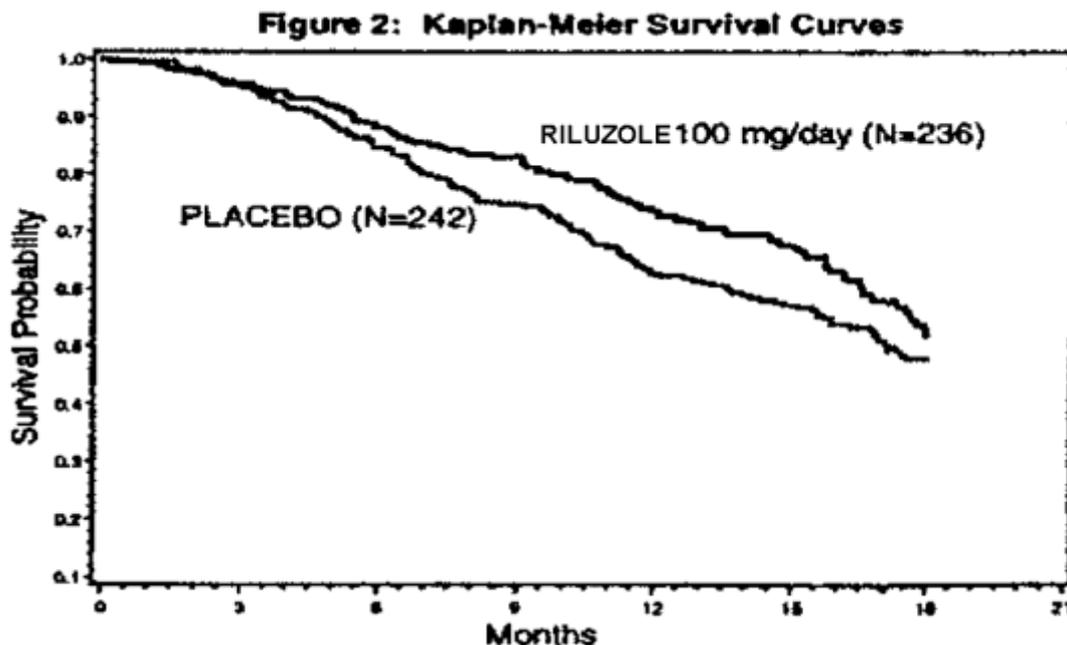
Riviere et al. (1998) analysed extended survival in ALS patients treated with riluzole in this study. Post hoc analysis suggested that the patients receiving riluzole remained in the milder health states longer ( $p < 0.05$ , Cox model). Patients with advanced disease were less responsive.

Figure 1: Kaplan Meier survival curve for 100mg riluzole vs placebo.



In a second dose-ranging trial, 959 patients with ALS were randomised to one of four treatment groups: riluzole 50, 100, 200 mg/day, or placebo and were followed-up for 18 months. In patients treated with riluzole 100 mg/day, survival was significantly longer compared to patients who received placebo. The median survival time approached 16.5 months versus 13.5 months for riluzole 100mg/day and placebo, respectively. There were no changes from baseline observed in the functional evaluation. The effect of 50 mg/day was not statistically significant compared to placebo and the effect of 200 mg/day was essentially comparable to that of 100 mg/day.

Figure 2: Kaplan Meier survival curve for 100mg riluzole vs. placebo. with 95% confidence interval.



A separate compassionate-use study (n=168), enabling access to treatment for patients excluded from the two pivotal studies, was designed to assess the efficacy and safety of riluzole in patients at a late stage of the disease. In this population with decreased respiratory function (baseline vital capacity less than 60%), survival time and motor function in the riluzole group did not differ significantly from that of placebo. It was anticipated that up to 300 patients would enter this study, but only 168 were enrolled (86 received placebo, 82 received riluzole). Thus the statistical power of the study was diminished.

In a double-blind placebo-controlled trial designed to assess the efficacy and safety of riluzole in Japanese patients, patients were randomised to riluzole 100mg/day (50mg twice daily) or placebo and were followed-up for 18 months. In this study, the efficacy was assessed on inability to walk alone, loss of upper limb function, tracheostomy, need for artificial ventilation, gastric tube feeding or death. Tracheostomy-free survival in patients treated with riluzole did not differ significantly from placebo. Due to the low incidence of ALS in Japan, and for practical reasons, the study was limited to 100 patients per treatment group. The small size of this study resulted in a lack of statistical power to detect a significant difference between riluzole and placebo.

Meta analysis, including this study and those described above, showed a less striking effect of survival for riluzole as compared to placebo although the differences remained statistically significant.

A Cochrane Review of data from the two pivotal studies (first trial and dose ranging trial) found that there was a significant difference in percent mortality at 12 months between riluzole 100mg/day and placebo groups. Results were expressed as odds ratios (OR) and 95% CI for continuous variables. With regards to the primary outcome (mortality at 12 months) the OR for the combined studies was 0.57 (95% CI 0.41 to 0.80, p=0.001). There was no evidence of heterogeneity (Chisquare, p= 0.58). Overall there was a 23% reduction in risk of death in those patients receiving riluzole (p=0.0509).

A United Kingdom National Institute for Clinical Excellence (NICE) Review of the clinical effectiveness of riluzole found that it was effective in the treatment of ALS. In a meta-analysis which included data from the two pivotal studies and the compassionate study, it was found that for tracheostomy-free survival over 18 months the hazard ratio was 0.83 (95% CI 0.69-0.99). The report concluded that there was evidence of a modest benefit for patients taking riluzole.

## **INDICATIONS**

APO-Riluzole is indicated for the treatment of patients with amyotrophic lateral sclerosis (ALS).

## **CONTRAINDICATIONS**

- Patients who have a history of severe hypersensitivity reactions to riluzole or any of the tablet components.
- Patients who have a hepatic disease or hepatic impairment (baseline transaminases greater than 3 times the upper limit of normal).
- Patients who are pregnant or lactating.

## **PRECAUTIONS**

### **Liver impairment:**

Riluzole is contraindicated in patients with hepatic disease or hepatic impairment (baseline transaminases greater than 3 times the upper limit of normal).

Riluzole should be prescribed with care in patients with a history of abnormal liver function, or in patients with slightly elevated serum transaminase (ALT/SGPT; AST/SGOT up to 3 times the ULN), bilirubin and/or gamma-glutamyl transferase (GGT) levels. Baseline elevations of several liver function tests (especially elevated bilirubin) should preclude the use of riluzole.

Elevations of alanine-aminotransferase (ALT) levels to more than 3 times the upper limit of the normal range (ULN) were observed in about 10 % of the patients treated with riluzole compared to 3.7 % in the placebo group; levels increased to more than 5 times the ULN in about 3% of the patients treated with riluzole compared to 2% of the placebo treated patients. The increases in ALT usually appeared within 3 months after the start of therapy with riluzole; they were usually transient and levels returned to below 2 times the ULN after 2 to 6 months while treatment was continued. These increases were rarely associated with jaundice. In patients with increases in ALT to more than 5 times the ULN, treatment was discontinued and the levels returned to less than 2 times the ULN within 2 to 4 months.

Because of risks of hepatitis, serum transaminases, including ALT, should be measured before and during therapy with riluzole. ALT should be measured every month during the first 3 months of treatment, every 3 months during the remainder of the first year, and periodically thereafter. ALT levels should be measured more frequently in patients who develop elevated ALT levels.

Riluzole should be discontinued if the ALT levels increase to five times the ULN. There is no experience with dose reduction or rechallenge in patients who have developed an increase of ALT to 5 times ULN. Re-administration of riluzole to patients in this situation cannot be recommended.

### **Renal insufficiency:**

Riluzole should be used with caution in patients with renal insufficiency.

### **Neutropenia:**

There have been three reports (3/5000) of marked neutropenia where absolute neutrophil count was less than 500/mm<sup>3</sup>. Refer to Adverse Events section. Patients should be warned to report any febrile illness to their physicians. The report of a febrile illness should prompt physicians to check white blood cell counts and to discontinue riluzole in case of neutropenia.

**Interstitial lung disease:**

Cases of interstitial lung disease have been reported in patients treated with riluzole, some of them were severe (see Adverse Effects section). If respiratory symptoms develop such as dry cough and/or dyspnea, chest radiography should be performed, and in case of findings suggestive of interstitial lung disease (e.g. bilateral diffuse lung opacities), riluzole should be discontinued immediately. In the majority of reported cases, symptoms resolved after drug discontinuation and symptomatic treatment.

**Carcinogenicity**

Two long term (2 years) carcinogenicity studies have been completed in rats and mice. Riluzole showed no evidence of carcinogenic potential in rats and mice treated orally for 2 years at doses of 10 and 20 mg/kg/day, respectively. These doses were approximately 0.85 times the recommended maximum dose of 100mg daily, on a mg/m<sup>2</sup> basis.

There was no evidence of a genotoxic potential in standard assays for gene mutations (microbial mutagenicity test, mouse lymphoma assay in L5178Y cells) and chromosomal damage (chromosomal aberrations in human lymphocytes in vitro, rat cytogenetic assay in vivo and mouse micronucleus assay).

**Impairment of Fertility**

Riluzole impaired fertility when administered to male and female rats prior to mating and during mating at an oral dose of 15 mg/kg (approximately 13 times human exposure at the maximum recommended clinical dose of 100mg, based on AUC).

**Use During Pregnancy (Category B3)**

In the pregnant rat, the transfer of <sup>14</sup>C-riluzole across the placenta to the foetus has been detected. There was no evidence of embryotoxicity or teratogenicity in the offspring of rats or rabbits following maternal treatment with riluzole during organogenesis at oral doses of up to 27 and 60 mg/kg/day respectively, corresponding to plasma exposures (based on AUC) 61 and 18 times higher than those anticipated in clinical use. However, foetal growth and development were slightly retarded, possibly as a consequence of maternal toxicity. Foetal growth was not affected following maternal exposure to riluzole at levels approximately 6 to 8-fold higher (based on AUC) than those anticipated in clinical use.

When administered to rats prior to and during mating (males and females) and throughout gestation and lactation (females), riluzole produced adverse effects on pregnancy (decreased implantations) and offspring viability and growth at an oral dose of 15mg/kg (approximately 13 times human exposure at the maximum recommended clinical dose of 100mg, based on AUC).

There are no adequate and well-controlled studies in pregnant women. Riluzole must not be used in pregnant women.

**Use During Lactation**

<sup>14</sup>C-riluzole and/or its metabolites were detected in the milk of lactating rats at levels 2.5-fold higher than those appearing in maternal plasma. There was an increased incidence of postnatal mortality in the offspring of rats treated with riluzole during the peri-natal period at oral doses of 15 mg/kg/day, which represents exposure (on the basis of AUC) to levels 13-fold higher than those anticipated in clinical use. It is not known whether riluzole is excreted in human milk; therefore, women should not breast-feed during treatment with riluzole.

## Interactions with other Medicines

There have been no clinical studies to evaluate the drug interactions of riluzole with other drugs. Experiments on mice and rats indicated that riluzole potentiated the hypnotic effects of hexobarbitone and chlorpromazine.

The metabolism of riluzole is mostly hepatic and consists of cytochrome P450-dependent hydroxylation and glucuronidation. There is marked inter-individual variability in the clearance of riluzole, probably attributable to variability of CYP 1A2 activity, the principal isozyme involved in N-hydroxylation. In vitro studies using liver microsomes show that hydroxylation of the primary amine group producing N-hydroxyriluzole is the main metabolic pathway in humans. In humans, cytochrome P450 1A2 is the principal isozyme involved in N-hydroxylation. In vitro studies predict that CYP 2D6, CYP 2C19, CYP 3A4, and CYP2E1 are unlikely to contribute significantly to riluzole metabolism in humans.

Effect of riluzole on the metabolism of other drugs : Potential interactions may occur when riluzole is given concurrently with other agents which are also metabolized primarily by CYP 1A2 (eg, theophylline, caffeine and tacrine). It is not know whether riluzole has any potential for enzyme induction in humans.

Effect of other drugs on riluzole metabolism: Potential interactions may occur when riluzole is given concurrently with other agents that affect CYP 1A2 activity. Potential inhibitors of CYP 1A2 (eg. caffeine, diclofenac, diazepam, nicergoline, clomipramine, imipramine, fluvoxamine, phenacetin, theophylline, amitriptyline and quinolones) could decrease the rate of riluzole elimination, while inducers of CYP 1A2 (eg. cigarette smoke, charcoal-broiled food, rifampicin and omeprazole) could increase the rate of riluzole elimination.

## Driving and Operating Machinery

Patients should be warned about the potential for dizziness, vertigo or somnolence, and advised not to drive or operate machinery if these symptoms occur.

## Children

The safety and effectiveness of riluzole in any neurodegenerative process occurring in children or adolescents have not been established.

## ADVERSE EFFECTS

### *Clinical Trials*

In Phase III studies conducted in North America and Europe, the most frequent side effects related to riluzole were asthenia, nausea, and elevations in liver function tests. The following table includes all the adverse events that occurred at a frequency of 1% or more among ALS patients receiving riluzole 100mg/day:

<b>Adverse Events Occurring in Placebo-Controlled Clinical Trials</b>			
Percentage of patients reporting events			
<b>Adverse Event</b>		<b>Riluzole 100mg/day (N=395)</b>	<b>Placebo (N=406)</b>
<b>Cardiac Disorders</b>	Heart Arrest	3.0	2.7
	Tachycardia	3.0	1.5
	Peripheral Oedema	2.5	1.7
<b>Ear and Labyrinth Disorders</b>	Vertigo	1.8	1.0
<b>Gastrointestinal Disorders</b>	Dysphagia	15.4	18.2
	Nausea	14.2	9.1
	Constipation	8.1	9.4

<b>Adverse Events Occurring in Placebo-Controlled Clinical Trials</b>			
Percentage of patients reporting events			
<b>Adverse Event</b>	<b>Riluzole 100mg/day (N=395)</b>	<b>Placebo (N=406)</b>	
	Abdominal Pain	5.1	3.7
	Diarrhoea	3.5	3.2
	Dyspepsia	3.3	4.2
	Dry Mouth	3.0	3.2
	Vomiting	3.0	1.2
	Flatulence	1.8	1.0
<b>General Disorders and Administration Site Conditions</b>	Death	27.3	33.3
	Asthenia	17.5	11.6
	Pain	4.8	2.0
	Flu Syndrome	3.0	4.2
	Chest Pain	1.0	1.5
	Neck Pain	1.0	1.0
<b>Infections and Infestations</b>	Bronchitis	12.9	14.5
	Pneumonia	3.3	3.2
	Urinary Tract Infection	3.3	2.7
	Concurrent Infection	1.5	0.7
	Pharyngitis	1.3	2.2
	Infection	1.0	1.7
<b>Injury and Poisoning</b>	Accidental Injury	7.8	9.6
<b>Investigations</b>	Weight Loss	3.8	3.7
	Hepatic function abnormal / Increased ALT	11.1	1.0
	Increased AST	1.3	0.5
<b>Metabolism and Nutrition Disorders</b>	Anorexia	2.8	3.0
<b>Musculoskeletal, Connective Tissue and Bone Disorders</b>	Back Pain	3.0	2.2
	Arthralgia	2.5	2.5
	Stiffness/Spasticity (Joint Disorder)	2.0	0.7
	Myalgia	1.0	1.5
<b>Nervous System Disorders</b>	Headache	6.6	5.4
	Hypertonia	5.3	6.2
	Dizziness	2.8	2.0
	Insomnia	2.8	3.7
	Somnolence	2.0	1.0
	Circumoral Parasthesia	1.3	0.0
<b>Psychiatric Disorders</b>	Depression	4.1	4.4
	Aggravation Reaction	1.3	1.2
	Nervousness	1.3	1.2
	Anxiety	1.0	1.0
<b>Renal and Urinary Disorders</b>	Urinary Frequency	1.0	0.7
<b>Respiratory, Thoracic and Mediastinal Disorders</b>	Respiratory Disorder	13.4	15.8
	Lung Function Decrease	12.7	14.5
	Apnoea	8.1	9.4
	Rhinitis	5.8	4.7
	Dyspnoea	5.3	5.7
	Lung Disorder	2.3	3.0
	Sputum Increase	2.3	4.9
	Cough Increased	1.8	1.2
	Pulmonary Embolus	1.3	1.2

<b>Adverse Events Occurring in Placebo-Controlled Clinical Trials</b>		
Percentage of patients reporting events		
<b>Adverse Event</b>	<b>Riluzole 100mg/day (N=395)</b>	<b>Placebo (N=406)</b>
Aspiration Pneumonia	1.0	0.5
<b>Skin and Subcutaneous Tissue Disorders</b>	Pruritus	3.0
	Eczema	1.3
	Sweating	1.0
<b>Vascular Disorders</b>	Hypertension	5.1
		4.4

The following is a list of adverse reactions reported from clinical trials and post marketing studies with an incidence of less than 1%:

*Uncommon 0.1 – 1 %*

*Rare 0.01 – 0.1%*

*Very Rare <0.01%*

*Not Known (cannot be estimated from the available data)*

#### Cardiac Disorders

*Rare:* angina unstable, atrial fibrillation, cardiac failure.

*Very Rare:* arrhythmia.

#### Gastrointestinal Disorders

*Uncommon:* pancreatitis

*Rare:* gastrointestinal disorder, gastric ulcer, gastrointestinal haemorrhage, gastrointestinal irritation, melaena.

#### General Disorders And Administration Site Conditions

*Rare:* condition aggravated, malaise, weakness, pyrexia.

*Very Rare:* anaphylactoid reaction.

#### Hepato-Biliary Disorders

*Rare:* hepatitis, jaundice, hepatocellular damage.

#### Immune System Disorders

*Uncommon:* anaphylactoid reaction, angioedema

*Rare:* hypersensitivity.

#### Laboratory Investigations

*Rare:* gamma-glutamyltransferase increased, liver function tests abnormal, transaminase increased, blood bilirubin increased, blood alkaline phosphatase increased, haematocrit

decreased, blood creatine phosphokinase increased, glycosuria present, haemoglobin decreased, leukocyte count decreased, platelet count decreased.

#### Metabolism And Nutrition Disorders

*Rare:* dehydration.

*Very Rare:* hyponatraemia.

#### Nervous System Disorders

*Very Rare:* amnesia.

#### Psychiatric Disorders

*Rare:* motor dysfunction, paraesthesia nec, completed suicide, confusion, delirium, hallucination, personality change due to a general medical condition.

#### Respiratory, Thoracic And Mediastinal Disorders

*Uncommon:* respiratory failure (exc neonatal), interstitial lung disease (see Precautions section).

*Rare:* asphyxia, respiratory distress.

#### Skin & Subcutaneous Tissue Disorders

*Rare:* dermatitis

*Very Rare:* angioedema.

#### Blood and Lymphatic System Disorders

*Uncommon:* anaemia

*Rare:* erythropenia, leucopenia, thrombocytopenia.

*Very Rare:* neutropenia - among approximately 5000 patients given riluzole for ALS, there were three cases of marked neutropenia (absolute neutrophil count less than 500/mm<sup>3</sup>), all seen within the first 2 months of riluzole treatment. In one case, neutrophil counts rose on continued treatment. In a second case, counts rose after therapy was stopped. A third case was associated with marked anaemia and the aetiology is uncertain.

### **DOSAGE AND ADMINISTRATION**

The recommended daily dose in adults or elderly is 100 mg (50 mg every 12 hours). No significant increase in benefit can be expected from higher daily doses.

Due to the reduction in absorption observed when administered with high fat meals, Riluzole should not be taken with a fat containing meal.

**Children:** the safety and effectiveness of riluzole in any neurodegenerative process occurring in children or adolescents have not been established.

**Patients with Impaired Renal Function: see Precautions.**

**Patients with Impaired Hepatic Function: see Contraindications and Precautions.**

### **OVERDOSAGE**

Neurological and psychiatric symptoms, acute toxic encephalopathy with stupor, coma and methemoglobinaemia have been observed in isolated cases. Severe methemoglobinaemia may be rapidly reversible after treatment with methylene blue.

In case of overdose, treatment is symptomatic and supportive.

**Contact the Poisons Information Centre on 13 11 26 (Australia) for advice on the management of overdose.**

### **PRESENTATION AND STORAGE CONDITIONS**

APO-Riluzole 50 mg tablets: White to off white coloured, film coated, capsule shaped, biconvex tablets “APO” engraved on one side and “RI-50” engraved on other side.

Blister packs of 56 tablets: AUST R 168091.

Bottles\* of 56, 100 and 500 tablets: AUST R 168094.

\* not marketed.

APO-Riluzole tablets are intended for oral administration. Each tablet contains 50 mg riluzole, as the active ingredient. In addition, each tablet contains the following inactive ingredients: calcium hydrogen phosphate, microcrystalline cellulose, croscarmellose sodium, magnesium stearate, hypromellose, macrogol 8000, purified talc and titanium dioxide.

Store below 25°C.

### **NAME AND ADDRESS OF THE SPONSOR**

Apotex Pty Ltd  
16 Giffnock Avenue  
Macquarie Park NSW 2113

Apotex Pty Ltd is the licensee of the registered trade marks APO and APOTEX from the registered proprietor, Apotex Inc.

### **POISONS SCHEDULE OF THE MEDICINE**

S4 : Prescription Only Medicine.

**Date of first inclusion in the Australian Register of Therapeutic Goods: 8 June 2011**

**Date of most recent amendment : 3 December 2012**