

# Risedronic acid

## Catalog No: tcsc1964



### Available Sizes

**Size:** 100mg

**Size:** 500mg



### Specifications

**CAS No:**

105462-24-6

**Formula:**

$C_7H_{11}NO_7P_2$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

Risedronate

**Observed Molecular Weight:**

283.11

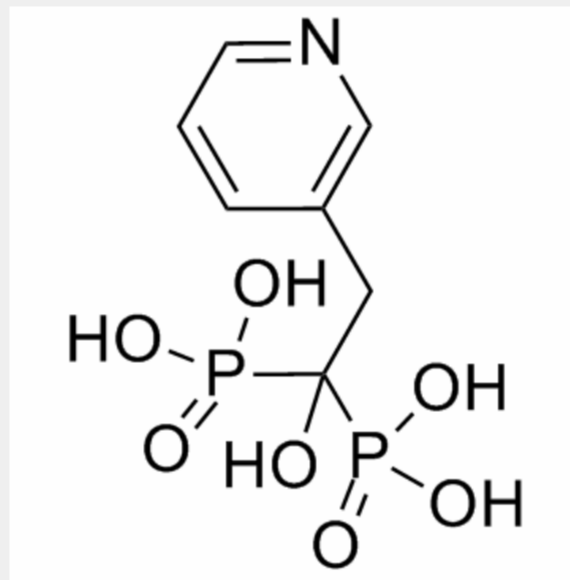
### Product Description

Risedronic acid (Risedronate ) is a pyridinyl biphosphonate which inhibits osteoclast-mediated bone resorption.

Target: Others

Risedronate, which was promoted in Croatia a few months ago, is the latest (III) generation of bisphosphonates, the most efficient anti-resorption drugs that inhibit osteoclast-mediated bone resorption and change the bone metabolism. Risedronate is hence the first line of bisphosphonates for the reduction of vertebral and non-vertebral fracture risks in postmenopausal women with osteoporosis or those with a high risk of osteoporosis. It also efficiently prevents bone loss or improves bone density in men and women on a long-term corticosteroid therapy .

The administration of 20 and 25 mg/kg risedronate for 4 days led to decreases of parasitemia of 68.9% and 83.6%, respectively. On the seventh day of treatment the inhibitions were 63% and 88.9% with 20 and 25 mg/kg, respectively. After recovering the parasitemia, a dose-response curve was obtained for estimating the ID<sub>50</sub> (dose causing 50% inhibition), equivalent to  $17 \pm 1.8$  mg/kg after 7 days of treatment. Four days after the interruption of treatment (11 days postinfection), the parasitemias of the groups treated with 10, 15, 20, and 25 mg/kg/day were 15.3%, 15.9%, 15.2%, and 5.7%, respectively. Conversely, the group that received PBS presented parasitemia of 25.6%. Among the groups treated with risedronate, only the animals that received 25 mg/kg had a significant inhibition of 77.8% (see Table S1 in the supplemental material), demonstrating that even after treatment discontinuation, the parasitemia of the animals remained low in relation to that of the controls .



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!