



LKT Laboratories, Inc.

## Risedronic Acid

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID R3374

CAS No. 105462-24-6

Chemical Name [1-Hydroxy-2-(3-pyridinyl)ethylidene]bisphosphonic acid

Synonym Risedronate

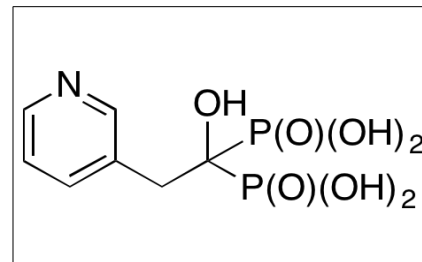
Formula  $C_7H_{11}NO_7P_2$

Formula Wt. 283.11

Melting Point

Purity  $\geq 97\%$

Solubility



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
R3374	25 mg	\$61.10
R3374	100 mg	\$142.90
R3374	250 mg	\$377.90

Store Temp Ambient

Ship Temp Ambient

**Description** Risedronic acid is a bisphosphonate clinically used to strengthen bone; it exhibits anti-osteoporotic, anti-inflammatory, antinociceptive, anti-parasitic, and antibiotic activities. Risedronic acid inhibits bone marrow adipogenesis and suppresses RANKL expression in vivo. In vivo, risedronic acid displays antimalarial activity, inhibiting the transfer of farnesyl phosphate to *Plasmodium* proteins and preventing parasitic growth in vivo. Additionally, risedronic acid inhibits release of TNF- $\alpha$  and leukotriene B4 (LTB4), decreasing inflammatory cell infiltration in vivo. In other animal models, risedronic acid inhibits chemically-induced pain.

**References** Jin J, Wang L, Wang XK, et al. Risedronate inhibits bone marrow mesenchymal stem cell adipogenesis and switches RANKL/OPG ratio to impair osteoclast differentiation. *J Surg Res.* 2013 Mar;180(1):e21-9. PMID: 22487394.

Jordão FM, Saito AY, Miguel DC, et al. In vitro and in vivo antiplasmodial activities of risedronate and its interference with protein prenylation in *Plasmodium falciparum*. *Antimicrob Agents Chemother.* 2011 May;55(5):2026-31. PMID: 21357292.

Carvalho AP, Bezerra MM, Girão VC, et al. Anti-inflammatory and anti-nociceptive activity of risedronate in experimental pain models in rats and mice. *Clin Exp Pharmacol Physiol.* 2006 Jul;33(7):601-6. PMID: 16789926.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.