



LKT Laboratories, Inc.

Risedronate Sodium Hydrate

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Product Information

Product ID R3373
CAS No. 329003-65-8
Chemical Name [1-Hydroxy-2-(3-pyridinyl)ethylidene]bisphosphonic acid monosodium salt

Synonym Risedronic acid monosodium salt, Actonel, Optinate

Formula $C_7H_{10}NO_7P_2Na \cdot 2.5H_2O$
Formula Wt. 350.13

Melting Point

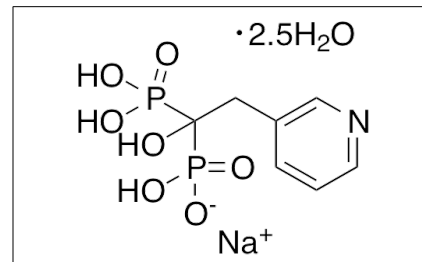
Purity $\geq 98\%$

Solubility Soluble in water. Insoluble in organic solvents.

Store Temp Ambient

Ship Temp Ambient

Description Risedronate is a bisphosphonate that exhibits anti-osteoporotic, anti-resorptive, anti-parasitic, and antimalarial activities. Risedronate inhibits bone marrow adipogenesis, decreases activity of mTORC1, and suppresses activation of NF- κ B in vitro. In animal models, risedronate induces apoptosis in osteoclasts, upregulates expression of Bim, increases bone mineral density, and inhibits bone resorption. Additionally, risedronate inhibits *Plasmodium* survival in vivo by inhibiting transfer of farnesyl pyrophosphate.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
R3373	25 mg	\$52.50
R3373	100 mg	\$149.90
R3373	500 mg	\$404.70

References Lems WF, den Heijer M. Established and forthcoming drugs for the treatment of osteoporosis. *Neth J Med.* 2013 May;71(4):188-93. PMID: 23723112.

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.

Matsumoto T, Nagase Y, Iwasawa M, et al. Distinguishing the proapoptotic and antiresorptive functions of risedronate in murine osteoclasts: role of the Akt pathway and the ERK/Bim axis. *Arthritis Rheum.* 2011 Dec;63(12):3908-17. PMID: 21898348.

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.

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