



LKT Laboratories, Inc.

## Ibandronate Sodium Monohydrate

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### Product Information

**Product ID** I0502

**CAS No.** 138926-19-9

**Chemical Name** [1-Hydroxy-3-(methylpentylamino)propylidene]bis- phosphonic acid

**Synonym** Ibandronic acid sodium salt

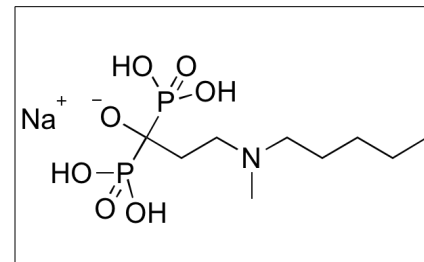
**Formula**  $C_9H_{23}NO_7P_2 \cdot H_2O \cdot Na$

**Formula Wt.** 359.21

**Melting Point** 84°C(dec.)

**Purity** ≥98%

**Solubility** Soluble in water.



**Bulk quantities available upon request**

Product ID	Size
I0502	10 mg
I0502	50 mg
I0502	100 mg

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Ibandronate is a long acting third generation bisphosphonate that exhibits anti-resorptive, anti-osteoporotic, and anti-angiogenic activities. Ibandronate increases bone mineral density, decreases resorption, and prevents fractures and post-menopausal osteoporosis. In vitro, ibandronate increases proliferation of osteoblasts and decreases activity of osteoclasts; it may also inhibit angiogenesis.

**References** Ziebart T, Pabst A, Klein MO, et al. Bisphosphonates: restrictions for vasculogenesis and angiogenesis: inhibition of cell function of endothelial progenitor cells and mature endothelial cells in vitro. Clin Oral Investig. 2011 Feb;15(1):105-11. PMID: 20024592.

Zhou Q, Zhao ZN, Cheng JT, et al. Ibandronate promotes osteogenic differentiation of periodontal ligament stem cells by regulating the expression of microRNAs. Biochem Biophys Res Commun. 2011 Jan 7;404(1):127-32. PMID: 21108928.

Epstein S, Zaidi M. Biological properties and mechanism of action of ibandronate: application to the treatment of osteoporosis. Bone. 2005 Oct;37(4):433-40. PMID: 16046205.

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