



LKT Laboratories, Inc.

Pamidronate Disodium Pentahydrate

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Product Information

Product ID P0049

CAS No. 109552-15-0

Chemical Name (3-Amino-1-hydroxypropylidene)bisphosphonic acid disodium salt pentahydrate

Synonym Pamidronic acid disodium salt pentahydrate

Formula $C_3H_9NNa_2O_7P_2 \cdot 5H_2O$

Formula Wt. 369.11

Melting Point 300°C

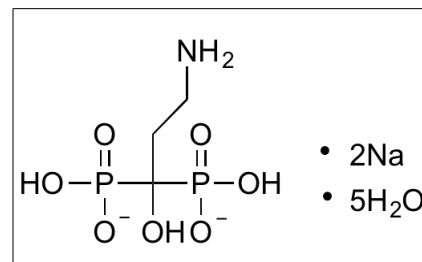
Purity ≥98%

Solubility Soluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Pamidronate is a bisphosphonate that exhibits anti-resorptive and anti-osteoporotic activities. Pamidronate is clinically used to prevent injury- or chemotherapy-induced bone loss. Clinically, pamidronate increases muscle fiber, bone strength, and bone density. This compound also prevents cancer metastasis to bone tissue.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P0049	10 mg	\$47.00
P0049	50 mg	\$154.20
P0049	100 mg	\$235.90

References Børsheim E, Herndon DN, Hawkins HK, et al. Pamidronate attenuates muscle loss after pediatric burn injury. J Bone Miner Res. 2014 Jun;29(6):1369-72. PMID: 24347438.

Laroche M, Livideanu C, Paul C, et al. Interferon alpha and pamidronate in osteoporosis with fracture secondary to mastocytosis. Am J Med. 2011 Aug;124(8):776-8. PMID: 21787907.

Kokufu I, Kohno N, Yamamoto M, et al. Adjuvant pamidronate therapy prevents the development of bone metastases in breast cancer patients with four or more positive nodes. Oncol Lett. 2010 Mar;1(2):247-252. PMID: 22966289.

Mawardi H, Giro G, Kajiya M, et al. A role of oral bacteria in bisphosphonate-induced osteonecrosis of the jaw. J Dent Res. 2011 Nov;90(11):1339-1345. PMID: 21921248.

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