

Teriparatide acetate

Chemical Properties

CAS No. :	99294-94-7
Formula:	C183H295N55O53S2
Molecular Weight:	4177.83
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Teriparatide acetate (Forteo) is a PHT agonist, with an IC50 of 2 nM in HEK293 cells. Teriparatide acetate is a recombinant form of parathyroid hormone. It is an effective anabolic (i.e., bone growing) agent used to treat some forms of osteoporosis. Intermittent use of Teriparatide acetate activates osteoblasts more than osteoclasts, which leads to an overall increase in bone.
Targets(IC50)	Others,Thyroid hormone receptor(THR)

Solubility Information

Solubility	H2O: 20 mg/mL (4.79 mM),Sonication is recommended. DMSO: 25 mg/mL (5.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2394 mL	1.1968 mL	2.3936 mL
5 mM	0.0479 mL	0.2394 mL	0.4787 mL
10 mM	0.0239 mL	0.1197 mL	0.2394 mL
50 mM	0.0048 mL	0.0239 mL	0.0479 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lindsay R, Krege JH, Marin F, Jin L, Stepan JJ. Teriparatide for osteoporosis: importance of the full course. *Osteoporos Int*. 2016 Feb 22. [Epub ahead of print] Review. PubMed PMID: 26902094.

Im GI, Lee SH. Effect of Teriparatide on Healing of Atypical Femoral Fractures: A Systemic Review. *J Bone Metab*. 2015 Nov;22(4):183-9. doi: 10.11005/jbm.2015.22.4.183. Epub 2015 Nov 30. Review. PubMed PMID: 26713309; PubMed Central PMCID: PMC4691592.

Babu S, Sandiford NA, Vrahas M. Use of Teriparatide to improve fracture healing: What is the evidence? *World J Orthop*. 2015 Jul 18;6(6):457-61. doi: 10.5312/wjo.v6.i6.457. eCollection 2015 Jul 18. Review. PubMed PMID: 26191492; PubMed Central PMCID: PMC4501931.

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