



Product Information

Product ID T1675

CAS No. 52232-67-4

Chemical Name

Synonym

Formula $C_{181}H_{291}N_{55}O_{51}S_2$

Formula Wt. 4117.72

Melting Point

Purity $\geq 95\%$

Solubility

Ser-Val-Ser-Glu-Ile-Gln-Leu-
Met-His-Asn-Leu-Gly-Lys-His-
Leu-Asn-Ser-Met-Glu-Arg-Val-
Glu-Trp-Leu-Arg-Lys-Lys-Leu-
Gln-Asp-Val-His-Asn-Phe-OH

Bulk quantities available upon request

Product ID	Size
T1675	0.5 mg
T1675	1 mg

Store Temp -20°C

Ship Temp Ambient

Description Teriparatide is also known as recombinant human parathyroid hormone (1-34) and it exhibits anabolic effects on bone. Teriparatide is an anti-osteoporotic drug that is clinically used to treat osteoporosis; it does not exhibit anti-resorptive benefit, but stimulates bone formation and increases bone strength. Teriparatide activates the PTH1 receptor. In clinical settings, teriparatide decreases new fracture occurrence and back pain and increases lumbar spinal bone mineral density. In mouse bone marrow stromal cells, teriparatide upregulates expression of osterix and Runx2; in paired animal models, this compound increases osteoblast maturation and improves fracture healing.

References Tseng YY, Su CH, Lui TN, et al. Prospective comparison of the therapeutic effect of teriparatide with that of combined vertebroplasty with antiresorptive agents for the treatment of new-onset adjacent vertebral compression fracture after percutaneous vertebroplasty. *Osteoporos Int.* 2012 May;23(5):1613-22. PMID: 21769661.

File E, Deal C. Clinical update on teriparatide. *Curr Rheumatol Rep.* 2009 Jul;11(3):169-76. PMID: 19604460.

Kaback LA, Soung do Y, Naik A, et al. Teriparatide (1-34 human PTH) regulation of osterix during fracture repair. *J Cell Biochem.* 2008 Sep 1;105(1):219-26. PMID: 18494002.

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