
Product Data Sheet

Product Name: Parathyroid hormone (1-34) (rat) acetate

Cat. No.: GC68337

Chemical Properties

Cas. No.

Formula $C_{182}H_{295}N_{55}O_{50}S_2$

M.Wt 4117.76

Solubility H₂O : ≥ 100 mg/mL (24.29 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Parathyroid hormone (1-34) (rat) (acetate) is a **parathyroid hormone**. Parathyroid hormone (1-34) (rat) improves both cortical and cancellous bone structure. Parathyroid hormone (1-34) (rat) can be used for the research of osteoporosis^{[1][2]}.

Parathyroid hormone (1-34) (rat) (acetate) (s.c; 40 mg/kg; per day; for 4 weeks) promotes the formation of bone^[1].

Animal Model: ovariectomized (Ovx) rats^[1]

Dosage: 40 mg/kg

Administration: s.c, per day, for 4 weeks

Caution: Product has not been fully validated for medical applications. For research use only.

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Result:

Preserved Cn-BV/TV and trabecular connectivity, and combined estrogen and PTH caused a 40% increment in Cn-BV/TV while maintaining comparable trabecular connectivity with that seen in the Shamoperated animals. Prevented further loss of connectivity and Cn-BV/TV, and combined estrogen and PTH resulted in as much as a 300% improvement in one of the parameters of trabecular connectivity, node to node strut length, and a 106% increase in Cn-BV/TV, with respect to the bone status at the initiation of treatment.

[1]. V Shen, et al. Loss of cancellous bone mass and connectivity in ovariectomized rats can be restored by combined treatment with parathyroid hormone and estradiol. J Clin Invest. 1993 Jun;91(6):2479-87.

[2]. Yebin Jiang, et al. Recombinant human parathyroid hormone (1-34) [teriparatide] improves both cortical and cancellous bone structure. J Bone Miner Res. 2003 Nov;18(11):1932-41.

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