Product Data Sheet

Parathyroid hormone (1-34) (rat)

Cat. No.: HY-P2279 **CAS No.:** 98614-76-7

Molecular Weight: 4057.71

Sequence Shortening: AVSEIQLMHNLGKHLASVERMQWLRKKLQDVHNF

Target: Thyroid Hormone Receptor

Pathway: Others

Storage: Powder -80°C 2 years

-20°C 1 year

In solvent -80°C 6 months

-20°C 1 month

BIOLOGICAL ACTIVITY

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Des	cri	nti	on

Parathyroid hormone (1-34) (rat) 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]}.

In Vivo

Parathyroid hormone (1-34) (rat) (s.c; 40 mg/kg; per day; for 4 weeks) promotes the formation of bone^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ovariectomized (Ovx) rats ^[1]
Dosage:	40 mg/kg
Administration:	s.c, per day, for 4 weeks
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.

REFERENCES

[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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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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