

Product Name: Parathyroid Hormone (1-34), bovine Revision Date: 01/10/2021

Product Data Sheet

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Parathyroid Hormone (1-34), bovine

Cat. No.:	A1114	(L)(Q)(D)(V)(H)(N)(F)-cooh
CAS No.:	12583-68-5	K K
Formula:	C183H288N54O50S2	R
M.Wt:	4108.71	L.
Synonyms:	H2N-Ala-Val-Ser-Glu-Ile-Gln-Phe-Met-His-As	WEVREMSSLH
	n-Leu-Gly-Lys-His-Leu-Ser-Ser-Met-Glu-Arg-	K G
	Val-Glu-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val	
	-His-Asn-Phe-OH	AVSELQFMH
Target:	Neuroscience	60
Pathway:	Neuroscience Peptides	AL PROVIDENCE
Storage:	Store at -20°C	Pit

Solvent & Solubility

	\geq 410.9 mg/mL in DMSO; \geq 43.8 mg/mL in H2O; \geq 64.6 mg/mL in EtOH				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	0.2434 mL	1.2169 mL	2.4339 mL
		5 mM	0.0487 mL	0.2434 mL	0.4868 mL
		10 mM	0.0243 mL	0.1217 mL	0.2434 mL

Please refer to the solubility information to select the appropriate solvent.

Biologica	Activity	APERBIU
Shortsummary	Enhancer of blood calcium level	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	Mouse primary bone marrow stromal cells (BMSCs).
	Preparation method:	Dissolved in acetic acid [1]. General tips for obtaining a higher concentration:
		Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic

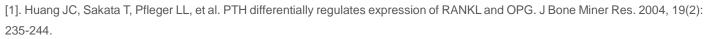
1 | www.apexbt.com

		bath for a while. Stock solution can be stored below -20°C for several months.			
	Reacting conditions:	100 ng/ml; 2 h.			
	Applications:	bPTH(1-34) increases RANKL mRNA levels and inhibits osteoprotegerin			
		(OPG) gene expression. bPTH(1-34) also increases the amount of TRAC			
	cells.				
	Animal experiment	80			
	Animal models:	C57BL/6 mice.			
	Dosage form:	80 μg/kg/day; 7 or 14 days; injec <mark>ted s</mark> ubcutaneously.			
	Applications:	PTH(1-34) significantly increases the percentage of TN/CD115(+) CD117(high)			
		and TN/CD115(+) CD117(int) cells in bone marrow on day 7. However,			
In Vivo		PTH(1-34) decreases the amount of TN/CD115(+) CD117(low) cells by 39% on			
		day 7. PTH increases receptor activator of NF-kB ligand (RANKL)- and			
		macrophage colony-stimulating factor (M-CSF)-stimulated in vitro			
		osteoclastogenesis and bone resorption in TN/CD115+ cells.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
	PE	slightly differ with the theoretical value. This is caused by an experimental			
	Constraint Section	system error and it is normal.			

Product Citations

See more customer validations on www.apexbt.com.





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[2]. Jacome-Galarza CE, Lee SK, Lorenzo JA, et al. Parathyroid hormone regulates the distribution and osteoclastogenic potential of hematopoietic progenitors in the bone marrow. J Bone Miner Res, 2011, 26(6): 1207-1216.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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