
Product Data Sheet

Product Name: parathyroid hormone (7-34) [Homo sapiens]/[Macaca fascicularis]
Cat. No.: GP10014

Chemical Properties

Cas. No.

Formula $C_{154}H_{246}N_{48}O_{40}S_2$ M.Wt 3474.03

Solubility $\geq 347.4\text{mg/mL}$ in DMSO 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 (7-34) [Homo sapiens] [Macaca fascicularis], ($C_{154}H_{246}N_{48}O_{40}S_2$), a peptide with the sequence $H_2N\text{-LMHNLGKHLNSMERVEWLRKKLQDVHNF-OH}$, MW = 3474.03. Parathyroid hormone (PTH), parathormone or parathyrin, is secreted by the chief cells of the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca^{2+}) in the blood, PTH acts to increase the concentration of calcium in the blood by acting upon the parathyroid hormone 1 receptor and the parathyroid hormone 2 receptor⁽¹⁾. PTH reduces the reabsorption of phosphate from the proximal tubule of the kidney,^[8] which means more phosphate is excreted through the urine. PTH enhances the uptake of phosphate from the intestine and bones into the blood⁽²⁾. In the bone, slightly more calcium than phosphate is released from the breakdown of bone. In the intestines, absorption of both Calcium and Phosphate is mediated by an increase in activated vitamin D.

References:

1. Bieglmayer C, Prager G, Niederle B (October 2002). "Kinetic analyses of parathyroid hormone clearance as measured by three rapid immunoassays during

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

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parathyroidectomy". Clin. Chem. 48 (10): 1731-8.

2. PooleK, Reeve J (2005). "Parathyroid hormone - a bone anabolic and catabolic agent".
Curr Opin Pharmacol 5 (6): 612-7.

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