Product Data Sheet

Chemical Properties

Product Name: Parathyroid hormone (1-34) (human)
Cas No.: 52232-67-4
M.Wt: 4117.75
Formula: C181H291N55O51S2

Chemical Name: Canonical SMILES:

Solubility: ≥399.3mg/mL in DMSO, <2.55 mg/mL in EtOH, ≥19.88 mg/mL in H2O
Storage: Desiccate 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.
Shopping Condition: Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Neuroscience
Pathways: Neuroscience Peptides
Description: Parathyroid hormone (1-34) (human), (C181H291N55O51S2), a peptide with the sequence
H2N-SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNF-OH, MW= 4117.72. 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 (Ca2+) in the blood, whereas calcitonin (a hormone produced by the parafollicular cells (C cells) of the thyroid gland) acts to decrease calcium concentration. 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). Parathyroid hormone regulates serum calcium, it enhances the release of calcium from the large reservoir contained in the bones(2). It enhances active reabsorption of calcium and magnesium from distal tubules and the thick ascending limb(3). It enhances the absorption of calcium in the intestine by increasing the production of activated vitamin D.

Reference:

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. Short term 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.

APExBIO Technology

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