

## Product datasheet for **TP727044**

### Parathyroid Hormone (PTH) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Parathyroid Hormone/PTH (N-8His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser32-Gln115
Tag:	N-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Parathyroid Hormone is produced by our Mammalian expression system and the target gene encoding Ser32-Gln115 is expressed with a 8His tag at the N-terminus.
Stability:	12 months from date of despatch
Locus ID:	5741
UniProt ID:	<a href="#">P01270</a>
Summary:	Parathyroid hormone (PTH) is a critical hormone in the regulation of Ca <sup>++</sup> homeostasis. Parathyroid hormone is the most important endocrine regulator of calcium and phosphorus concentration in extracellular fluid. This hormone is secreted from cells of the parathyroid glands and finds its major target cells in bone and kidney. Another hormone, parathyroid hormone-related protein, binds to the same receptor as parathyroid hormone and has major effects on development. Like most other protein hormones, parathyroid hormone is synthesized as a preprohormone. After intracellular processing, the mature hormone is packaged with in the Golgi into secretory vesicles, the secreted into blood by exocytosis. In renal epithelium, PTH promotes conversion of Vitamin D to its active form, lowers Ca <sup>++</sup> excretion and increases phosphate excretion. PTH also increases hematopoietic stem cell proliferation and mobilization and induces arterial vasodilation by regulating Ca <sup>++</sup> influx in PTH1R-expressing arterial smooth muscle.



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