

Product Data:

Product SKU: RPES1209

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q0VGD7

Protein Information:

Molecular Mass: 20.2 kDa

AP Molecular Mass: 30 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Parathyroid hormone/parathyroid hormone-related peptide receptor;PTH/PTHrP type I receptor;PTH/PTHr receptor;Parathyroid hormone 1 receptor;PTH1 receptor;PTH1R

Immunogen Information:

Sequence: Tyr23-Met 189

Background:

Parathyroid hormone 1 receptor (PTH1R) is a multi-pass membrane protein. The protein is expressed in high levels in bone and kidney and regulates calcium ion homeostasis through activation of adenylate cyclase and phospholipase C. In bone, it is expressed on the surface of osteoblasts. When the receptor is activated through PTH binding, osteoblasts express RANKL (Receptor Activator of Nuclear Factor κ B Ligand), which binds to RANK (Receptor Activator of Nuclear Factor κ B) on osteoclasts. This turns on osteoclasts to ultimately increase the resorption rate.