

Synonym

PTH1R, PTHR, PTHR1

Source

Human PTH1R, His Tag (PTR-H5222) is expressed from human 293 cells (HEK293). It contains AA Asp 27 - Gly 188 (Accession # [Q03431-1](#)).

Predicted N-terminus: Asp 27

Molecular Characterization

PTH1R(Asp 27 - Gly 188)
Q03431-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.6 kDa. The protein migrates as 27-43 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>85% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

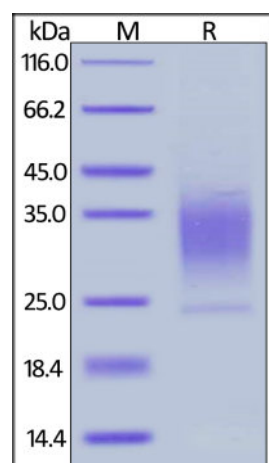
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human PTH1R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

Background

Parathyroid hormone/parathyroid hormone-related peptide receptor is also known as Parathyroid hormone 1 receptor (PTH1R), PTHR1, PTH/PTHrP type I receptor (PTH/PTHr receptor), which belongs to the G-protein coupled receptor 2 family. PTH1R / PTHR1 is a receptor for parathyroid hormone and for parathyroid hormone-related peptide. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.