Recombinant PTH2R protein (His tag)

Catalog Number	547016
Synonyms	PTH2 receptor
Species	Human
Expression System	E. coli
Accession	P49190
Molecular Weight	Predictes a molecular mass of 14.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	33-145
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 33-145 aa (P49190) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant Parathyroid hormone 2 receptor (PTH2 receptor) fragment (residues 33-145), a 113-amino acid protein derived from human PTH2R. This fragment is engineered for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations of PTH2 receptor signaling pathways. The full-length Parathyroid hormone 2 receptor (PTH2R) is a multi-pass membrane protein located in the cell membrane and functions as a specific receptor for parathyroid hormone. Its activity is mediated by G proteins that activate adenylyl cyclase, and it may play critical roles in physiological systems, including pancreatic function. PTH2R's presence in neurons suggests it may also act as a neurotransmitter receptor, highlighting its importance in both endocrine and neurological research.