Recombinant RL3R2 protein (His tag)

Catalog Number	548801
Synonyms	RLN3 receptor 2; G-protein coupled receptor 100; G-protein coupled receptor GPCR142; Insulin-like peptide INSL5 receptor; Relaxin family peptide receptor 4
Species	Human
Expression System	E. coli
Accession	Q8TDU9
Molecular Weight	Predictes a molecular mass of 9.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	303-374
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 303-374 aa (Q8TDU9) 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	This recombinant protein product features a 72-amino acid fragment (residues 303-374) of the human Relaxin-3 receptor 2 (RXFP4), a G-protein coupled receptor involved in peptide hormone signaling. The fragment is designed for high stability and solubility, making it ideal for structural studies and biochemical assays. The full-length Relaxin-3 receptor 2 (RLN3 receptor 2), encoded by the RXFP4 gene in Homo sapiens, is a multi-pass membrane protein localized to the cell membrane. It functions as a high-affinity receptor for INSL5 and also binds RLN3/relaxin-3, bradykinin, and kallidin. Ligand binding to this receptor inhibits cAMP accumulation, implicating it in signaling pathways that regulate cellular processes. This receptor's role in peptide hormone interactions makes it significant for research in endocrinology and cell signaling.