Recombinant RTP3 protein (His tag)

Catalog Number	549077
Synonyms	3CxxC-type zinc finger protein 3; Transmembrane protein 7
Species	Human
Expression System	E. coli
Accession	Q9BQQ7
Molecular Weight	Predictes a molecular mass of 21.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-163
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-163 aa (Q9BQQ7) 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	Recombinant Receptor-transporting protein 3 (RTP3) fragment (amino acids 1-163) is a high-quality protein product designed for research applications. This fragment, derived from human RTP3, supports the study of bitter taste receptor trafficking and function, offering a stable and soluble unit ideal for structural and biochemical analyses. Receptor-transporting protein 3 (RTP3) is a transmembrane protein in humans that promotes functional cell surface expression of bitter taste receptors, specifically TAS2R16 and TAS2R43, as evidenced by research (PubMed:16720576). Located in the membrane and classified as a single-pass type III membrane protein, RTP3 plays a critical role in facilitating the transport and activity of these receptors, which are essential for bitter taste perception and signaling pathways.