Recombinant RTP1 protein (His tag)

Catalog Number	549466
Synonyms	3CxxC-type zinc finger protein 1
Species	Human
Expression System	E. coli
Accession	P59025
Molecular Weight	Predictes a molecular mass of 20.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	43-202
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 43-202 aa (P59025) 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 Receptor-transporting protein 1 (RTP1) fragment (amino acids 43-202), a stable and soluble unit derived from the human protein essential for olfactory receptor trafficking. This fragment is ideal for structural studies and functional assays investigating GPCR expression mechanisms. Receptor-transporting protein 1 (RTP1) is a human protein that specifically promotes functional cell surface expression of olfactory receptors, but not other G protein-coupled receptors (GPCRs). It localizes to the cell membrane as a single-pass type III membrane protein, with its effective surface expression dependent on interaction with olfactory receptors. This protein plays a crucial role in olfactory signal transduction by ensuring proper localization of olfactory receptors to the cell membrane.