Recombinant CTRB2 protein (His tag)

Catalog Number	550646
Species	Human
Expression System	E. coli
Accession	Q6GPI1
Molecular Weight	Predictes a molecular mass of 27.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	19-263
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 19-263 aa (Q6GPI1) 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 Chymotrypsinogen B2 (EC 3.4.21.1) Fragment (residues 19-263) is a high-purity protein designed to encompass the complete Peptidase S1 domain. This fragment, derived from the human CTRB2 gene, serves as an essential tool for investigating protease activity, enzyme kinetics, and domain-specific functions in biochemical and cellular research. Chymotrypsinogen B2 is a precursor protein that is cleaved into active chymotrypsin B2 chains (A, B, and C), functioning as a serine protease (EC 3.4.21.1). It is secreted into the extracellular space, indicating its role in extracellular proteolytic processes, such as protein digestion and tissue remodeling. The recombinant fragment (residues 19-263) retains the Peptidase S1 domain, enabling focused studies on protease mechanisms without interference from other regions of the full-length protein.