Recombinant CTRB1 protein (His tag)

Catalog Number	549728
Species	Human
Expression System	E. coli
Accession	P17538
Molecular Weight	Predictes a molecular mass of 27.51 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	>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 19-263 aa (P17538) 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 B (EC 3.4.21.1) fragment (residues 19-263) is a high-purity protein designed to encompass the functional Peptidase S1 domain. This fragment, derived from the human CTRB1 gene, serves as an essential tool for investigating protease activity, enzyme kinetics, and domain-specific functions in biochemical and biomedical research. Chymotrypsinogen B is the inactive precursor of Chymotrypsin B, a serine protease that plays a critical role in the digestive system by cleaving peptide bonds. The full-length protein is secreted into the extracellular space, where it is activated through proteolytic cleavage into three chains (A, B, and C) to form the mature enzyme. This recombinant fragment retains the Peptidase S1 domain, enabling studies on protease mechanisms, substrate specificity, and its implications in physiological and pathological processes.