Recombinant CTRL protein (His tag)

Catalog Number	548936
Species	Human
Expression System	E. coli
Accession	P40313
Molecular Weight	Predictes a molecular mass of 26.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	34-264
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 34-264 aa (P40313) 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 Chymotrypsin-like protease CTRL-1 (EC 3.4.21.-) fragment (amino acids 34-264) from Homo sapiens, encompassing the complete Peptidase S1 domain. This high-purity protein is an essential tool for investigating protease activity, domain-specific functions, and enzymatic mechanisms in biochemical and biomedical research. Chymotrypsin-like protease CTRL-1, encoded by the CTRL gene in humans (UniProt ID: P40313), is a serine protease belonging to the peptidase S1 family. While detailed functional and subcellular localization data are not specified here, proteases in this class are typically involved in critical biological processes such as protein maturation, digestion, and regulatory pathways. The provided fragment (34-264) spans the entire Peptidase S1 domain, enabling focused studies on substrate specificity, catalytic activity, and the role of CTRL-1 in health and disease without interference from other protein regions.