

Recombinant Rat CMA1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52383

Size: 10ug, 100ug

Protein Name: Chymase (EC 3.4.21.39) (Alpha-chymase) (Mast cell protease 3) (rMCP-3) (Mast cell protease 5) (rMCP-5) (Mast cell protease III) (rMCP-III)

Synonym: Cma1, Mcpt3

UniProt ID: P50339

UniProt Link: www.uniprot.org/uniprotkb/P50339/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 247 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNLHALCLLLLLLGSSTKAGEIIGGTECIPHSRPY MAYLEIVTSDNYLSACSGFLIRRNFVLTA AHCAG
RSITVLLGAHNKTYKEDTWQKLEVEKQFIHPNYDKRLVLHDIMLLKLKEKAKLT LGVGTLP L SANFNI
PPGRMCRAVGWGRNTNVNEPASDTLQEVKMRLQEPQSCKHFTSFQHKSQLCVGNPKMKMQNVYKG
DSGGPLL CAGIAQGIASYVHPNAKPPAVFTRISHYRPWINKILREN

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Chymase (EC 3.4.21.39) (Alpha-chymase) (Mast cell protease 3) (rMCP-3) (Mast cell protease 5) (rMCP-5) (Mast cell protease III) (rMCP-III) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Major secreted protease of mast cells with suspected roles in vasoactive peptide generation, extracellular matrix degradation, and regulation of gland secretion.

Subcellular Localization: Secreted. Cytoplasmic granule. Note=Secretory granules.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.