



Recombinant Rat Mast cell protease 2 (Mcpt2)

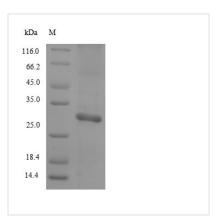
Product Code	CSB-EP360441RA
Relevance	This enzyme, isolated from small intestine, specifically inactivates the apo forms of a certain group of intracellular pyridoxal phosphate-requiring enzymes. It has chymotrypsin-like specificity towards small substrates.
Abbreviation	Recombinant Rat Mcpt2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P00770
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	IIGGVESIPHSRPYMAHLDIVTEKGLRVICGGFLISRQFVLTAAHCKGREITVILG AHDVRKRESTQQKIKVEKQIIHESYNSVPNLHDIMLLKLEKKVELTPAVNVVPLP SPSDFIHPGAMCWAAGWGKTGVRDPTSYTLREVELRIMDEKACVDYRYYEYK FQVCVGSPTTLRAAFMGDSGGPLLCAGVAHGIVSYGHPDAKPPAIFTRVSTYV PWINAVINTSS
Research Area	others
Source	E.coli
Target Names	Mcpt2
Protein Names	Group-specific protease Mast cell protease II
Expression Region	21-247aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged and C-terminal Myc-tagged
Mol. Weight	30.5kDa
Protein Length	Full Length of Mature Protein
Imaga	

Image









(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 21-247 form the expressed segment for recombinant Rat Mcpt2. The expected molecular weight for the Mcpt2 protein is calculated to be 30.5 kDa. Expression of this Mcpt2 protein is conducted in e.coli. The N-terminal 6xHis tag and C-terminal Myc tag was smoothly integrated into the coding gene of Mcpt2, which enables a simple process of detecting and purifying the Mcpt2 recombinant protein in the following steps.

Mast cell protease 2 (Mcpt2) is an enzyme belonging to the mast cell protease family, specifically the tryptase subgroup. In rats, Mcpt2 is primarily expressed in mast cells, which are immune cells involved in inflammatory and allergic responses. Mcpt2 functions as a serine protease and is stored in mast cell granules. Upon activation of mast cells, Mcpt2 is released into the surrounding tissues where it can contribute to various physiological processes, including inflammation, tissue remodeling, and defense against pathogens. Mcpt2 is implicated in allergic reactions and immune responses. Studying Mcpt2 and related mast cell proteases is essential for understanding the intricacies of mast cell function, immune regulation, and the development of therapeutic strategies for allergic and inflammatory disorders in which mast cells play a role.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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