



Recombinant Dog Dipeptidyl peptidase 1 (CTSC)

Product Code	CSB-MP006186DO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O97578
Product Type	Recombinant Protein
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Purity	>85% (SDS-PAGE)
Sequence	DTPANCTHPE LLGTWVFQVG PAGSRVNC S VMGPPEKKVV VHLEKLDTAY DNFGNTGHFT IYINQGF EIV LNDYKWF AFF KYKEEGHKVT SYCNETMTGW VHDVLGRNW
Source	Mammalian cell
Target Names	CTSC
Protein Names	Recommended name: Dipeptidyl peptidase 1 EC= 3.4.14.1 Alternative name(s): Cathepsin C Cathepsin J Dipeptidyl peptidase I Short name= DPP-I Short name= DPPI Dipeptidyl transferase Cleaved into the following 6 chain
Expression Region	1-109
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in immune/inflammatory cells. It is composed of a dimer of disulfide- linked heavy and light chains, both produced from a single protein precursor, and a residual portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade glucagon. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis. Multiple transcript variants encoding different isoforms have been found for this gene.
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	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.