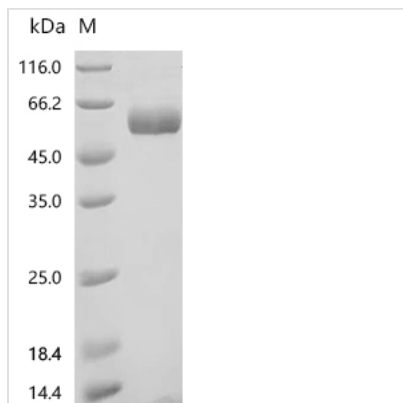




# Recombinant Human Dipeptidyl peptidase 1 (CTSC) (Active)

<b>Product Code</b>	CSB-MP006186HU
<b>Abbreviation</b>	Recombinant Human CTSC protein (Active)
<b>Storage</b>	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.
<b>Uniprot No.</b>	P53634
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm sterile filtered 12.5 mM MES, 75 mM NaCl, 6% Trehalose, pH 6.5
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Arg-7-amido-4-methylcoumarin (GR-AMC). The specific activity is >200 pmol/min/µg. The Human CTSC needs to be activated by Human CTSL (CSB-MP006193HU(A4)).
<b>Purity</b>	≥ 95% as determined by SDS-PAGE.
<b>Sequence</b>	DTPANCTYLDLLGTWVWFQVGSSGSQRDVNCSVMGPQEKKVVVYLQKLDTAY DDLGNSGHFTIYNQGFIVLNDYKWFVAFKKYKEEGSKVTTYCNETMTGWVHD VLGRNWACFTGKKVGTASENVVNIHLKNSQEKYSNRLYKYDHNFKAINAI QKSWTATTYMEYETLTLGDMIRRSRGGHSRIPRKPAPLTAEIQQKILHLPTSW DWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNSQTPILSPQEV VSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRY YSSEYHYVGGFYGGCNEALMKLELVHHGPMVAFAFEVYDDFLHYKKGIYHHTG LRDPFNPFEELTNHAVLLVGYGTDSASGMDYWIVKNSWGTGWGENGYFRIRR GTDECAIESIAVAATPIPKL
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CTSC
<b>Expression Region</b>	25-463aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 10xHis-tagged
<b>Mol. Weight</b>	50.9 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



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

<b>Activation protein</b>	Human CTSL (CSB-MP006193HU(A4))	
<b>Enzyme</b>	Human CTSC (CSB-MP006186HU)	0.125µg/well
<b>Substrate</b>	GR-AMC (AbMole, M54383, 5mg)	10µM
<b>Reaction system</b>	/	100µl
<b>Reaction conditions</b>	37°C and 5min in dark	/
<b>Activation Buffer</b>	25mM MES, 5mM DTT, pH 6.0	
<b>Assay Buffer</b>	25mM MES, 50mM NaCl, 5mM DTT, pH 6.0	
<b>Enzyme activity unit (pmol/min/µg)</b>	>200 pmol/min/µg	

#### Activity

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#### Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

#### 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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