



Recombinant Human 26S proteasome non-ATPase regulatory subunit 12 (PSMD12)

Product Code	CSB-MP018902HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O00232
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	ADGGSERAD GRIVKMEVDY SATVDQRLPE CAKLAKEGRL QEVIETLLSL EKQTRTASDM VSTSRILVAV VKMCYEAKEW DLLNENIMLL SKRRSQLKQA VAKMVQQCCT YVEEITDLPI KLRLIDTLRM VTEGKIYVEI ERARLTKTLA TIKEQNGDVK EAASILQELQ VETYGSMEKK ERVEFILEQM RLCLAVKDYI RTQIISKIN TKFFQEENTE KLKLYYNLM IQLDQHEGSY LSICKHYRAI YDTPCIQAES EKWQQALKSV VLYVILAPFD NEQSDLVHRI SGDKKLEEIP KYKDLLKLFT TMELMRWSTL VEDYGMELRK GSLESPATDV FGSTEEGEKR WKDLKNRVVE HNIRIMAKYY TRITMKRMAQ LLDLSVDESE AFLSNLVVVK TIFAKVDRLA GIINFQRPKD PNNLLNDWSQ KLNSLMSLVN KTTHLIAKEE MIHNLQ
Source	Mammalian cell
Target Names	PSMD12
Protein Names	Recommended name: 26S proteasome non-ATPase regulatory subunit 12 Alternative name(s): 26S proteasome regulatory subunit RPN5 26S proteasome regulatory subunit p55
Expression Region	2-456
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 of Mature Protein
Target Details	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. A pseudogene has been



identified on chromosome 3.

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.