

PSMB8 Protein, Human, Recombinant (His & Myc & SUMO)

General Information

Synonyms:	Really interesting new gene 10 protein;Macropain subunit C13;Multicatalytic endopeptidase complex subunit C13;Proteasome subunit beta-5i;Proteasome subunit beta type-8; Proteasome component C13;RING10;LMP7;Low molecular mass protein 7;Y2;PSMB5i;PSMB8
Protein Construction:	73-276 aa
Species:	Human
Expression Host:	E. coli
Accession:	P28062
Molecular Weight:	42.7 kDa (predicted)
AA Sequence:	TTTLAFKFQHGVIAAVDSRASAGSYISALRVNKNVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYLRNGERI SVSAASKLLSNMMCQYRGMGLSMGSMICGWDKKGPGLYYVDEHGTRLSGNMFSTGSGNTYAYGVMDSGY RPNLSPEEAYDLGRRAIAYATHRDSYSGGVNMYHMKEDGWVKVESTDVSDLLHQYREANQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding

peptides. Replacement of PSMB5 by PSMB8 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues. Involved in the generation of spliced peptides resulting from the ligation of two separate proteasomal cleavage products that are not contiguous in the parental protein. Acts as a major component of interferon gamma-induced sensitivity. Plays a key role in apoptosis via the degradation of the apoptotic inhibitor MCL1. May be involved in the inflammatory response pathway. In cancer cells, substitution of isoform 1 (E2) by isoform 2 (E1) results in immunoproteasome deficiency. Required for the differentiation of preadipocytes into adipocytes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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