

PSMB6 Protein, Mouse (His)

Cat. No.:	HY-P75989
Synonyms:	Proteasome subunit beta type-6; Psmb6; Lmp19
Species:	Mouse
Source:	E. coli
Accession:	Q60692 (T34-P238)
Gene ID:	19175
Molecular Weight:	Approximately 24.2 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PSMB6, an integral component of the 20S core proteasome complex, takes part in the proteolytic degradation of the majority of intracellular proteins, contributing to essential cellular functions. Its association with two 19S regulatory particles results in the formation of the 26S proteasome, which actively engages in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome is crucial for maintaining protein homeostasis by eliminating misfolded or damaged proteins that could compromise cellular functions, as well as proteins that are no longer needed. Additionally, PSMB6 participates in ubiquitin-independent protein degradation when associated with PA200 or PA28 within the 20S proteasome, playing a pivotal role in processes such as spermatogenesis and the generation of MHC class I-presented antigenic peptides. Within the 20S core complex, PSMB6 exhibits peptidylglutamyl-hydrolyzing activity, also known as postacidic or caspase-like activity, wherein peptide bond hydrolysis occurs directly after acidic residues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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