

## PSMD7 Protein, Human (Sf9)

Cat. No.:	HY-P701467
Synonyms:	PSMD7; 26S proteasome non-ATPase regulatory subunit 7; 26S proteasome regulatory subunit RPN8; 26S proteasome regulatory subunit S12; Mov34 protein homolog; Proteasome subunit p40
Species:	Human
Source:	Sf9 insect cells
Accession:	P51665 (P2-K324)
Gene ID:	5713
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	PSMD7, a vital component of the 26S proteasome, forms part of the multiprotein complex responsible for the ATP-dependent degradation of ubiquitinated proteins. This complex plays a crucial role in maintaining protein homeostasis by eliminating misfolded or damaged proteins, which could otherwise impede cellular functions, as well as proteins that are no longer necessary for cellular processes such as cell cycle progression, apoptosis, or DNA damage repair. PSMD7 is a member of the 19S proteasome regulatory particle complex, which constitutes the lid of the 26S proteasome and is composed of nine subunits, including PSMD7, along with a base containing six ATPases and a few additional components. Within this complex, PSMD7 interacts with subunit PSMD4 through their respective MPN domains. Moreover, PSMD7 engages in interactions with TRIM5, highlighting its role in diverse cellular processes and protein-protein interactions.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA