

PSMG4 Protein, Human

Cat. No.:	HY-P701390
Synonyms:	PSMG4; Proteasome assembly chaperone 4; PAC-4; hPAC4
Species:	Human
Source:	E. coli
Accession:	Q5JS54 (M1-F123)
Gene ID:	389362
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	PSMG4 (Proteasome assembly chaperone 4) is a chaperone protein that plays a crucial role in promoting the assembly of the 20S proteasome. Functioning in collaboration with PSMG3, PSMG4 facilitates the proper formation and maturation of the 20S proteasome, an essential component of the cellular protein degradation machinery. Notably, PSMG4 interacts with the alpha subunits of the 20S proteasome, indicating its involvement in coordinating the assembly of this multi-subunit complex. The chaperone activity of PSMG4 underscores its significance in ensuring the proper functioning and structural integrity of the 20S proteasome, contributing to the cell's ability to regulate protein turnover and maintain cellular homeostasis. It has to highlight PSMG4's role as a chaperone protein in promoting the assembly of the 20S proteasome and its interaction with both PSMG3 and the alpha subunits of the proteasome.
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Caution: Product has not been fully validated for medical applications. For research use only.

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