

PSMG3 Protein, Human (His, Strep)

Cat. No.:	HY-P701389
Synonyms:	PSMG3; Proteasome assembly chaperone 3; PAC-3; hPAC3
Species:	Human
Source:	E. coli
Accession:	Q9BT73 (M1-W122)
Gene ID:	84262
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	PSMG3 (Proteasome assembly chaperone 3) is a chaperone protein crucial for the assembly of the 20S proteasome, an essential component of the cellular protein degradation machinery. PSMG3 may cooperate with PSMG1-PSMG2 heterodimers to orchestrate the correct assembly of proteasomes. Existing as a homodimer, PSMG3 interacts with PSMG4 and directly engages with both alpha and beta subunits of the 20S proteasome. Notably, it dissociates before the formation of half-proteasomes, likely occurring upon the recruitment of POMP. This highlights PSMG3's role in facilitating the precise assembly of the 20S proteasome, a critical process for maintaining cellular homeostasis through effective protein degradation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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