

PSME1 Protein, Human (His)

Cat. No.:	HY-P75990
Synonyms:	Proteasome activator complex subunit 1; REG-alpha; IGUP I-5111; PA28a; IFI5111
Species:	Human
Source:	E. coli
Accession:	Q06323 (A2-Y249)
Gene ID:	5720
Molecular Weight:	Approximately 29 kDa

PROPERTIES

AA Sequence	<pre> A M L R V Q P E A Q A K V D V F R E D L C T K T E N L L G S Y F P K K I S E L D A F L K E P A L N E A N L S N L K A P L D I P V P D P V K E K E K E E R K K Q Q E K E D K D E K K K G E D E D K G P P C G P V N C N E K I V V L L Q R L K P E I K D V I E Q L N L V T T W L Q L Q I P R I E D G N N F G V A V Q E K V F E L M T S L H T K L E G F H T Q I S K Y F S E R G D A V T K A A K Q P H V G D Y R Q L V H E L D E A E Y R D I R L M V M E I R N A Y A V L Y D I I L K N F E K L K K P R G E T K G M I Y </pre>
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 sterile 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween 80, pH 7.4.
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	PSME1 Protein plays a pivotal role in immunoproteasome assembly and is crucial for efficient antigen processing. As a component of the PA28 activator complex, PSME1, along with PSME2, actively enhances the production of class I binding peptides by modulating the cleavage pattern of the proteasome. Together, the PSME1 and PSME2 heterodimer forms a
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hexameric ring structure integral to these immunoproteasome functions. Additionally, PSME1 has the capacity to form homoheptamers, further emphasizing its role in orchestrating immune responses and antigen presentation.

Caution: Product has not been fully validated for medical applications. For research use only.

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