

PSME2 Protein, Human (His)

Cat. No.:	HY-P75991
Synonyms:	Proteasome activator complex subunit 2; REG-beta; PA28beta; PA28b; PSME2
Species:	Human
Source:	E. coli
Accession:	Q9UL46 (M1-Y239)
Gene ID:	5721
Molecular Weight:	Approximately 29 kDa

PROPERTIES

AA Sequence	<pre> MAKPCGVRLS GEARKQVEVF RQNLFQEAE FLYRFLPQKI IYLNQLLQED SLNVADLTS LAPLDIPID PPPKDDMET DKQEKKEVHK CGFLPGNEKV LSL LALVKPE VWT LKEKCIL VITWIQHLIP KIEDGNDFGV AIQEKVLERV NAVKTKVEAF QTTISKYFSE RGD AVAKASK ETHVMDYRAL VHERDEAAYG ELRAMVLDLR AFYAELYHII SSNLEKIVNP KGEEKPSMY </pre>
Biological Activity	Immobilized Mouse PSME2 at 2 µg/mL (100 µL/well) can bind Anti- PSME2 Antibody, The ED ₅₀ for this effect is 26.49 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0, 10% Glycerol.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	PSME2 Protein plays a crucial role in immunoproteasome assembly and is essential for efficient antigen processing. The PA28 activator complex, composed of PSME1 and PSME2 heterodimer, actively contributes to the generation of class I binding peptides by modifying the cleavage pattern of the proteasome. This heterodimeric complex forms a hexameric ring structure, highlighting its significance in orchestrating processes vital for immune responses and antigen presentation.
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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

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