Recombinant PSME2 protein (His tag)

Catalog Number	541522
Synonyms	11S regulator complex subunit beta; REG-beta; Activator of multicatalytic protease subunit 2; Proteasome activator 28 subunit beta; PA28b; PA28beta
Species	Human
Expression System	E. coli
Accession	Q9UL46
Molecular Weight	Predictes a molecular mass of 28.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	2-239
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-239 aa (Q9UL46) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This product is a recombinant fragment of the human Proteasome activator complex subunit 2 (PSME2/PA28beta), encompassing residues 2-239. It is designed to support studies on immunoproteasome assembly and antigen processing, offering a stable and soluble unit ideal for structural and biochemical research. The full-length Proteasome activator complex subunit 2, encoded by the PSME2 gene, plays a critical role in immunoproteasome assembly and enhances antigen processing by altering the proteasome's cleavage pattern to improve the generation of class I binding peptides. This function is essential for efficient immune responses, making it a key target for research in immunology and proteasome regulation.