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Datasheet for ABIN7556220 **PSMA1 Protein (AA 1-263) (His tag)**

Overview

Quantity:	1 mg
Target:	PSMA1
Protein Characteristics:	AA 1-263
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PsmA1 Protein expressed in mammalian cells.
Sequence:	MFRNQYDNDV TVWSPQGRIH QIEYAMEAVK QGSATVGLKS KTHAVLVALK RAQSELAAHQ KKILHVDNHI GISIAGLTAD ARLLCNFMRQ ECLDSRFVFD RPLPVSRLVS LIGSKTQIPT QRYGRRPYGV GLLIAGYDDM GPHIFQTCPS ANYFDCRAMS IGARSQSART YLERHMSEFM ECNLDELVKH GLRALRETLP AEQDLTTKNV SIGIVGKDLE FTIYDDDDVS PFLDGLEERP QRKAQPSQAA EEPAEKADEP MEH Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PSMA1
Alternative Name:	Psm1 (PSMA1 Products)
Background:	<p>Proteasome subunit alpha type-1 (Macropain subunit C2) (Multicatalytic endopeptidase complex subunit C2) (Proteasome component C2) (Proteasome nu chain),FUNCTION: Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). {ECO:0000269 PubMed:12874245, ECO:0000269 PubMed:16581775, ECO:0000269 PubMed:19526544, ECO:0000269 PubMed:22341445}.</p>
Molecular Weight:	29.5 kDa

Target Details

UniProt: [Q9R1P4](#)

Pathways: [Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
