

PSMA6 Blocking Peptide (N-Term)

Synthetic peptide

Catalog # BP21666a

Specification

PSMA6 Blocking Peptide (N-Term) - Product Information

Primary Accession

[P60900](#)**PSMA6 Blocking Peptide (N-Term) - Additional Information**

Gene ID 5687

Other Names

Proteasome subunit alpha type-6, 27 kDa prosomal protein, PROS-27, p27K, Macropain iota chain, Multicatalytic endopeptidase complex iota chain, Proteasome iota chain, PSMA6, PROS27

Target/Specificity

The synthetic peptide sequence is selected from aa 52-65 of HUMAN PSMA6

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PSMA6 Blocking Peptide (N-Term) - Protein InformationName PSMA6 ([HGNC:9535](#))

Synonyms PROS27

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).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q9QUM9, ECO:0000269|PubMed:12181345}. Nucleus.
Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9 (PubMed:34711951) Colocalizes with TRIM5 in cytoplasmic bodies (By similarity) {ECO:0000250|UniProtKB:Q9QUM9, ECO:0000269|PubMed:34711951}

PSMA6 Blocking Peptide (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PSMA6 Blocking Peptide (N-Term) - Images

PSMA6 Blocking Peptide (N-Term) - Background

The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity.

PSMA6 Blocking Peptide (N-Term) - References

Bey F.,et al.Mol. Gen. Genet. 237:193-205(1993).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Heilig R.,et al.Nature 421:601-607(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.