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PSMB2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20507b

Specification

PSMB2 Blocking Peptide (C-term) - Product Information

Primary Accession	P49721
Other Accession	P40307, Q9R1P3

PSMB2 Blocking Peptide (C-term) - Additional Information

Gene ID 5690

Other Names
Proteasome subunit beta type-2, Macropain subunit C7-I, Multicatalytic endopeptidase complex subunit C7-I, Proteasome component C7-I, PSMB2

Target/Specificity
The synthetic peptide sequence is selected from aa 149-163 of Human PSMB2

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.

PSMB2 Blocking Peptide (C-term) - Protein Information

Name PSMB2

Function
Non-catalytic 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. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction

with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

PSMB2 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

PSMB2 Blocking Peptide (C-term) - Images

PSMB2 Blocking Peptide (C-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. This subunit has a trypsin-like activity.

PSMB2 Blocking Peptide (C-term) - References

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Rasmussen H.H., et al. Electrophoresis 13:960-969(1992).
Kristensen P., et al. Biochem. Biophys. Res. Commun. 205:1785-1789(1994).
Apcher G.S., et al. FEBS Lett. 553:200-204(2003).
Nothwang H.G., et al. Biochim. Biophys. Acta 1219:361-368(1994).