

PRS4 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20440b

Specification

PRS4 Blocking Peptide (C-term) - Product Information

Primary Accession [P62191](#)
Other Accession [P62193](#), [P62192](#)

PRS4 Blocking Peptide (C-term) - Additional Information

Gene ID 5700

Other Names

26S protease regulatory subunit 4, P26s4, 26S proteasome AAA-ATPase subunit RPT2, Proteasome 26S subunit ATPase 1, PSMC1

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.

PRS4 Blocking Peptide (C-term) - Protein Information

Name PSMC1

Function

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. PSMC1 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.

Cellular Location

Cytoplasm. Nucleus. Membrane; Lipid-anchor

PRS4 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

PRS4 Blocking Peptide (C-term) - Images

PRS4 Blocking Peptide (C-term) - Background

The 26S protease is involved in the ATP-dependent degradation of ubiquitinated proteins. The regulatory (or ATPase) complex confers ATP dependency and substrate specificity to the 26S complex.

PRS4 Blocking Peptide (C-term) - References

Dubiel W., et al. J. Biol. Chem. 267:22699-22702(1992).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Matilla A., et al. Hum. Mol. Genet. 10:2821-2831(2001).
Brill L.M., et al. Anal. Chem. 76:2763-2772(2004).
Katiyar S., et al. Proc. Natl. Acad. Sci. U.S.A. 101:13774-13779(2004).