

PPP2R5B Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20958c

Specification

PPP2R5B Blocking Peptide (C-term) - Product Information

Primary Accession [Q15173](#)

PPP2R5B Blocking Peptide (C-term) - Additional Information

Gene ID 5526

Other Names

Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform, PP2A B subunit isoform B'-beta, PP2A B subunit isoform B56-beta, PP2A B subunit isoform PR61-beta, PP2A B subunit isoform R5-beta, PPP2R5B

Target/Specificity

The synthetic peptide sequence is selected from aa 466-480 of HUMAN PPP2R5B

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.

PPP2R5B Blocking Peptide (C-term) - Protein Information

Name PPP2R5B

Function

As the regulatory component of the serine/threonine-protein phosphatase 2A (PP2A) holoenzyme, modulates substrate specificity, subcellular localization, and responsiveness to phosphorylation. The phosphorylated form mediates the interaction between PP2A and AKT1, leading to AKT1 dephosphorylation.

Cellular Location

Cytoplasm.

Tissue Location

Highest expression in brain.

PPP2R5B Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

PPP2R5B Blocking Peptide (C-term) - Images

PPP2R5B Blocking Peptide (C-term) - Background

The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. The phosphorylated form mediates the interaction between AKT1 and PP2A phosphatase leading to dephosphorylation of AKT1 on the 'Thr-308' and 'Ser-373' residues.

PPP2R5B Blocking Peptide (C-term) - References

McCright B., et al. J. Biol. Chem. 270:26123-26128(1995).
Zolnierowicz S., et al. Biochem. J. 317:187-194(1996).
McCright B., et al. J. Biol. Chem. 271:22081-22089(1996).
Kitajima T.S., et al. Nature 441:46-52(2006).
Rodgers J.T., et al. Mol. Cell 41:471-479(2011).