

**PPP2R4 Blocking Peptide (N-Term)**  
**Synthetic peptide**  
**Catalog # BP21983a****Specification**

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**PPP2R4 Blocking Peptide (N-Term) - Product Information**Primary Accession [Q15257](#)**PPP2R4 Blocking Peptide (N-Term) - Additional Information****Gene ID** 5524**Other Names**

Serine/threonine-protein phosphatase 2A activator, 5.2.1.8, PP2A, subunit B', PR53 isoform, Phosphotyrosyl phosphatase activator, PTPA, Serine/threonine-protein phosphatase 2A regulatory subunit 4, Serine/threonine-protein phosphatase 2A regulatory subunit B', PPP2R4, PTPA

**Target/Specificity**

The synthetic peptide sequence is selected from aa 3-15 of HUMAN PPP2R4

**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.

**PPP2R4 Blocking Peptide (N-Term) - Protein Information****Name** PTPA ([HGNC:9308](#))**Synonyms** PPP2R4**Function**

PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides (By similarity). Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) (PubMed:[16916641](http://www.uniprot.org/citations/16916641), PubMed:[36073231](http://www.uniprot.org/citations/36073231)). Modulates PP2A activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase (PubMed:[16916641](http://www.uniprot.org/citations/16916641)). Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+) (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro)

(PubMed:<a href="http://www.uniprot.org/citations/16916641" target="\_blank">16916641</a>). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex (PubMed:<a href="http://www.uniprot.org/citations/16916641" target="\_blank">16916641</a>). Is involved in apoptosis; the function appears to be independent from PP2A (PubMed:<a href="http://www.uniprot.org/citations/17333320" target="\_blank">17333320</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Widely expressed.

**PPP2R4 Blocking Peptide (N-Term) - Protocols**

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

- [Blocking Peptides](#)

**PPP2R4 Blocking Peptide (N-Term) - Images****PPP2R4 Blocking Peptide (N-Term) - Background**

PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine- protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+) (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A.

**PPP2R4 Blocking Peptide (N-Term) - References**

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Van Hoof C.,et al.Genomics 28:261-272(1995).  
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