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PTPRZ1 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP21103a

Specification

PTPRZ1 Blocking Peptide (N-term) - Product Information

Primary Accession	P23471
Other Accession	O62656

PTPRZ1 Blocking Peptide (N-term) - Additional Information

Gene ID 5803

Other Names
Receptor-type tyrosine-protein phosphatase zeta, R-PTP-zeta, Protein-tyrosine phosphatase receptor type Z polypeptide 1, Protein-tyrosine phosphatase receptor type Z polypeptide 2, R-PTP-zeta-2, PTPRZ1, HTPZP2, PTPRZ, PTPRZ2, PTPZ

Target/Specificity
The synthetic peptide sequence is selected from aa 446-460 of HUMAN PTPRZ1

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.

PTPRZ1 Blocking Peptide (N-term) - Protein Information

Name PTPRZ1

Synonyms HTPZP2, PTPRZ, PTPRZ2, PTPZ

PTPRZ1 Blocking Peptide (N-term) - Background

Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligondendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades (By similarity).

PTPRZ1 Blocking Peptide (N-term) - References

Krueger N.X.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:7417-7421(1992).
Levy J.B.,et al.J. Biol. Chem. 268:10573-10581(1993).
Hillier L.W.,et al.Nature 424:157-164(2003).
Scherer S.W.,et al.Science 300:767-772(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Function
Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligondendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades (By similarity).

Cellular Location
[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Secreted. Note=A secreted form is apparently generated by shedding of the extracellular domain

Tissue Location
Specifically expressed in the central nervous system, where it is localized in the Purkinje cell layer of the cerebellum, the dentate gyrus, and the subependymal layer of the anterior horn of the lateral ventricle. Developmentally regulated in the brain.

PTPRZ1 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides