

CDK5R1 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP21452a

Specification

CDK5R1 Blocking Peptide (N-term) - Product Information

Primary Accession

[Q15078](#)**CDK5R1 Blocking Peptide (N-term) - Additional Information**

Gene ID 8851

Other Names

Cyclin-dependent kinase 5 activator 1, CDK5 activator 1, Cyclin-dependent kinase 5 regulatory subunit 1, TPKII regulatory subunit, Cyclin-dependent kinase 5 activator 1, p35, p35, Cyclin-dependent kinase 5 activator 1, p25, p25, Tau protein kinase II 23 kDa subunit, p23, CDK5R1, CDK5R, NCK5A

Target/Specificity

The synthetic peptide sequence is selected from aa 30-44 of HUMAN CDK5R1

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.

CDK5R1 Blocking Peptide (N-term) - Protein Information

Name CDK5R1

Synonyms CDK5R, NCK5A

Function

p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite outgrowth and cortical lamination. Involved in dendritic spine morphogenesis by mediating the EFNA1-EPHA4 signaling. Activator of TPKII. The complex p35/CDK5 participates in the regulation of the circadian clock by modulating the function of CLOCK protein: phosphorylates CLOCK at 'Thr-451' and 'Thr-461' and regulates the transcriptional activity of the CLOCK-BMAL1 heterodimer in association with altered stability and subcellular distribution.

Cellular Location

[Cyclin-dependent kinase 5 activator 1, p35]: Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, neuron projection. Note=In the primary cortical neurons, p35 is present in the

peripheries and nerve terminals.

Tissue Location

Brain and neuron specific.

CDK5R1 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

CDK5R1 Blocking Peptide (N-term) - Images**CDK5R1 Blocking Peptide (N-term) - Background**

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CDK5R1 Blocking Peptide (N-term) - References

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Patrick G.N.,et al.Nature 402:615-622(1999).
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