

PDE2A Blocking Peptide (C-Term)
Synthetic peptide
Catalog # BP22001b**Specification**

PDE2A Blocking Peptide (C-Term) - Product Information

Primary Accession [O00408](#)
Other Accession [P14099](#), [Q922S4](#), [Q01062](#)

PDE2A Blocking Peptide (C-Term) - Additional Information

Gene ID 5138

Other Names

cGMP-dependent 3', 5'-cyclic phosphodiesterase, 3.1.4.17, Cyclic GMP-stimulated phosphodiesterase, CGS-PDE, cGSPDE, PDE2A

Target/Specificity

The synthetic peptide sequence is selected from aa 807-821 of HUMAN PDE2A

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.

PDE2A Blocking Peptide (C-Term) - Protein Information

Name PDE2A ([HGNC:8777](#))

Function

cGMP-activated cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:9210593, PubMed:29392776, PubMed:15938621). Has a higher efficiency with cGMP compared to cAMP (PubMed:15938621). Plays a role in cell growth and migration (PubMed:24705027).

Cellular Location

[Isoform PDE2A3]: Cell membrane; Lipid- anchor [Isoform PDE2A1]: Cytoplasm

Tissue Location

Widely expressed (PubMed:9210593, PubMed:29392776). Expressed in brain, with high expression observed in the corpus striatum (PubMed:29392776). Also expressed in heart, placenta, lung, skeletal muscle, kidney and pancreas (PubMed:9210593, PubMed:29392776)

PDE2A Blocking Peptide (C-Term) - Protocols

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

- [Blocking Peptides](#)

PDE2A Blocking Peptide (C-Term) - Images**PDE2A Blocking Peptide (C-Term) - Background**

Cyclic nucleotide phosphodiesterase with a dual- specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes.

PDE2A Blocking Peptide (C-Term) - References

Rosman G.J.,et al.Gene 191:89-95(1997).
Bugaj-Gaweda B.,et al.Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).
Russwurm C.,et al.J. Biol. Chem. 284:25782-25790(2009).