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PDE8B Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20045c

Specification

PDE8B Blocking Peptide (Center) - Product Information

Primary Accession	O95263
Other Accession	E9Q4S1, NP_003710.1

PDE8B Blocking Peptide (Center) - Additional Information

Gene ID 8622

Other Names
High affinity cAMP-specific and IBMX-insensitive 3', 5'-cyclic phosphodiesterase 8B, HsPDE8B, Cell proliferation-inducing gene 22 protein, PDE8B

Target/Specificity
The synthetic peptide sequence is selected from aa 311-324 of HUMAN PDE8B

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.

PDE8B Blocking Peptide (Center) - Protein Information

Name PDE8B

Function
Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in specific signaling in the thyroid gland.

Tissue Location
Abundantly expressed in the thyroid. Also very weakly expressed in brain, spinal cord and placenta. In the thyroid isoform 1 predominates, and isoforms 2 and 6 are also highly expressed In the placenta isoforms 1 and 2 are expressed equally. In the brain isoform 2 predominates.

PDE8B Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

PDE8B Blocking Peptide (Center) - Images

PDE8B Blocking Peptide (Center) - Background

The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.

PDE8B Blocking Peptide (Center) - References

Horvath, A., et al. Thyroid 20(4):363-367(2010)
Rose, J. Phd, et al. Mol. Med. (2010) In press :
Appenzeller, S., et al. Am. J. Hum. Genet. 86(1):83-87(2010)
Shields, B.M., et al. J. Clin. Endocrinol. Metab. 94(11):4608-4612(2009)
Bimpaki, E.I., et al. Eur. J. Endocrinol. 161(1):153-161(2009)