

**PDE8A Blocking Peptide (Center) (Q348)**  
**Synthetic peptide**  
**Catalog # BP1463d****Specification**

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**PDE8A Blocking Peptide (Center) (Q348) - Product Information**Primary Accession [O60658](#)**PDE8A Blocking Peptide (Center) (Q348) - Additional Information****Gene ID** 5151**Other Names**

High affinity cAMP-specific and IBMX-insensitive 3', 5'-cyclic phosphodiesterase 8A, PDE8A

**Target/Specificity**

The synthetic peptide sequence is selected from aa 348~362 of HUMAN PDE8A

**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.

**PDE8A Blocking Peptide (Center) (Q348) - Protein Information****Name** PDE8A**Function**

Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes (PubMed:<a href="http://www.uniprot.org/citations/18983167" target="\_blank">18983167</a>). May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development (PubMed:<a href="http://www.uniprot.org/citations/18983167" target="\_blank">18983167</a>). Binding to RAF1 reduces RAF1 'Ser-259' inhibitory- phosphorylation and stimulates RAF1-dependent EGF-activated ERK- signaling (PubMed:<a href="http://www.uniprot.org/citations/23509299" target="\_blank">23509299</a>). Protects against cell death induced by hydrogen peroxide and staurosporine (PubMed:<a href="http://www.uniprot.org/citations/23509299" target="\_blank">23509299</a>).

**Tissue Location**

Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon

### **PDE8A Blocking Peptide (Center) (Q348) - Protocols**

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

- [Blocking Peptides](#)

### **PDE8A Blocking Peptide (Center) (Q348) - Images**

### **PDE8A Blocking Peptide (Center) (Q348) - Background**

PDE8A plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase, which has a high affinity for cAMP, may be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development.

### **PDE8A Blocking Peptide (Center) (Q348) - References**

Wu,P., Proc. Natl. Acad. Sci. U.S.A. 101 (51), 17634-17639 (2004)  
Gamanuma,M., Cell. Signal. 15 (6), 565-574 (2003)