

PDE2A recombinant protein

PDE2A, Active

CATALOG # AAA73097	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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PRODUCT SYNONYMS

PDE2A; Active; PDE2A recombinant protein

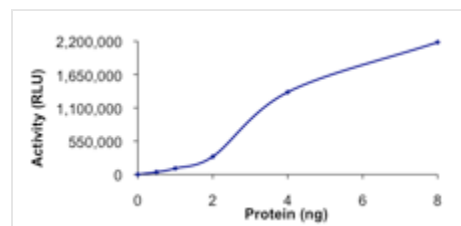
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full Length
Sequence Length	4329
Applicable Applications for PDE2A recombinant protein	PDE Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PDE2A recombinant protein

Description: Recombinant full-length human PDE2A was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE2A is a member of the cyclic nucleotide phosphodiesterase family. PDE2A is a cGMP-specific phosphodiesterase and hydrolyzes cGMP to 5'-GMP. TNFalpha stimulation of cells leads to an increase in PDE2A expression in a p38 mitogen-activated protein kinase (MAPK)-dependent manner (1). TNFalpha-mediated up-regulation of PDE2A may destabilize endothelial barrier function in sepsis. In addition, selective PDE2A up-regulation sensitizes endothelial cells toward the permeability-increasing agent thrombin (2). Furthermore, PDE2A inhibition is effective in preventing thrombin-induced lung edema.

Product Categories/Family for PDE2A recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Seybold J, et al: Tumor necrosis factor-alpha-dependent expression of phosphodiesterase 2: role in endothelial hyperpermeability. Blood. 2005 May 1;105 (9):3569-76. 2. Diebold I, et al: Phosphodiesterase 2 mediates redox-sensitive endothelial cell proliferation and angiogenesis by thrombin via Rac1 and NADPH oxidase 2. Circ Res. 2009 May 22;104 (10):1169-77.

NCBI AND UNIPROT INFORMATION

NCBI GI #	344925848
NCBI GeneID	5138
NCBI Accession #	NM_002599.4
NCBI GenBank Nucleotide #	NM_002599
UniProt Accession #	O00408 ; Q5J791 ; Q5J792 ; Q5J793 ; Q6ZMR1 ; B2R646 ; B3KRV5 ; E9PGI1 ; F6W5Z0
Molecular Weight	~130 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 2A (PDE2A), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 2A
NCBI Official Symbol	PDE2A
NCBI Official Synonym Symbols	PDE2A1; PED2A4; cGSPDE; CGS-PDE
NCBI Protein Information	cGMP-dependent 3',5'-cyclic phosphodiesterase
UniProt Protein Name	cGMP-dependent 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE2A
UniProt Synonym Gene Names	CGS-PDE; cGSPDE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pde2a-recombinant-protein-sf9-insect-cells-using-baculovirus-pde-assay/73097>