

PDE4B recombinant protein

PDE4B, Active

CATALOG # AAA73100	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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PRODUCT SYNONYMS

PDE4B; Active; PDE4B recombinant protein

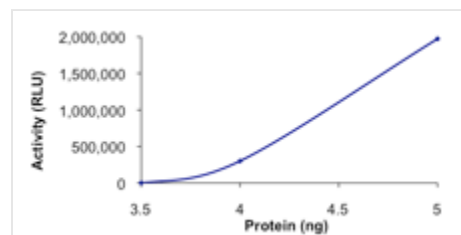
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	305-end
Sequence Length	4264
Applicable Applications for PDE4B 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 PDE4B recombinant protein

Description: Recombinant human PDE4B (305-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE4B is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and has homology to the 'dunce' gene of Drosophila. The 'dunce' gene is one of several genes critical for normal learning and memory in the fly. Altered activity of PDE4B has been associated with schizophrenia and bipolar affective disorder. DISC1 interacts with the UCR2 domain of PDE4B and elevation of cellular cAMP leads to dissociation of PDE4B from DISC1 and in increase in PDE4B activity (1). PDE4B gene itself does not link to major depressive disorder (MDD) but elevated mRNA levels of PDE4B have been implicated in the pathophysiology of MDD (2).

Product Categories/Family for PDE4B recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Millar J K, et al: DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling. Science 310: 1187-1191, 2005. 2. Numata S, et al: Gene expression and association analyses of the phosphodiesterase 4B (PDE4B) gene in major depressive disorder in the Japanese population. Am J Med Genet B Neuropsychiatr Genet. 2009 Jun 5;150B (4):527-34.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82799480
NCBI GeneID	5142
NCBI Accession #	NM_002600.3
NCBI GenBank Nucleotide #	NM_002600
UniProt Accession #	Q07343 ; O15443 ; Q13945 ; Q5TEK4 ; Q5TEK5 ; Q5TEK6 ; A5YW33
Molecular Weight	~78 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 4B (PDE4B), transcript variant a, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 4B
NCBI Official Symbol	PDE4B
NCBI Official Synonym Symbols	DPDE4; PDEIVB
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4B
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4B
UniProt Gene Name	PDE4B
UniProt Synonym Gene Names	DPDE4

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/pde4b-recombinant-protein-sf9-pde-assay/73100>