

PDE4D recombinant protein

PDE4D, Active

CATALOG # AAA73102	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
------------------------------	---	----------------------------------

PRODUCT SYNONYMS

PDE4D; Active; PDE4D recombinant protein

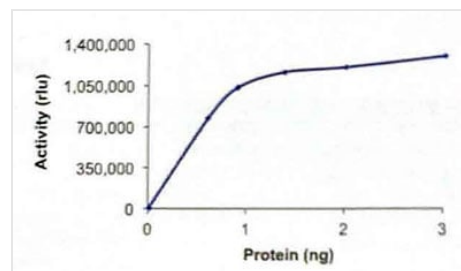
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Purity/Purification	>85%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Sequence Positions	225-end
Sequence Length	7783
Applicable Applications for PDE4D 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°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. Ships on dry ice.

IMAGES



Application Data



Application Data

the specific activity of PDE4D was determined to be 1,250 nmol/min/mg as per activity assay protocol.

ADDITIONAL INFORMATION

Related Product Information for PDE4D recombinant protein	Description: Recombinant human PDE4D (225-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PDE4D is a member of the phosphodiesterase (PDE) family that is cAMP-specific and has homology to the 'dunce' gene of Drosophila. PDE4D is expressed in both cytosolic and particulate fractions in the cell and Rolipram, a specific PDE4 inhibitor, inhibits and significantly lowers the IC50 for the cytosolic forms of the enzyme. TNFalpha upregulates the basal expression of PDE4D in HUVEC. PDE4D, which is not detected in untreated cells, accumulates beginning 4 hours after TNFalpha treatment and increased by 24 hours (1). Mice deficient in PDE4D exhibit delayed growth as well as reduced viability and female fertility (2).
Product Categories/Family for PDE4D recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Miro X, et al: Phosphodiesterases 4D and 7A splice variants in the response of HUVEC cells to TNF-alpha. Biochem. Biophys. Res. Commun. 274: 415-421, 2000. 2. Jin S-L C, et al: Impaired growth and fertility of cAMP-specific phosphodiesterase PDE4D-deficient mice. Proc. Nat. Acad. Sci. 96: 11998-12003, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157277986
NCBI GeneID	5144
NCBI Accession #	NM_006203.4
NCBI GenBank Nucleotide #	NM_006203
Molecular Weight	~82 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 4D (PDE4D), transcript variant 2, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 4D
NCBI Official Symbol	PDE4D
NCBI Official Synonym Symbols	DPDE3; PDE43; STRK1; ACRDYS2; HSPDE4D; PDE4DN2
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
UniProt Gene Name	PDE4D
UniProt Synonym Gene Names	DPDE3

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pde4d-recombinant-protein-sf9-insect-cells-using-baculovirus-pde-assay/73102>