

PDE4C recombinant protein

PDE4C, Active

CATALOG # AAA73101	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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PRODUCT SYNONYMS

PDE4C; Active; PDE4C recombinant protein

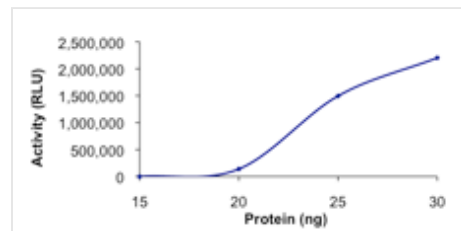
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	287-end
Sequence Length	5346
Applicable Applications for PDE4C 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 PDE4C recombinant protein

Description: Recombinant human PDE4C (287-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE4C is a member of the phosphodiesterase (PDE) family that is cAMP-specific 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. Homozygous mutations in 'dunce' cause defective short-term memory and behavioral defects (1). PDE4C is assigned to human chromosome 19 by Southern analyses while in situ hybridization localized the PDE4C gene to 19p13.1. PDE4C has been shown to be a substrate for phosphorylation by ERK2 within the C-terminal portion of the PDE4C catalytic unit and this phosphorylation can regulate the activity of PDE4C (2).

Product Categories/Family for PDE4C recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Bolger G, et al: A family of human phosphodiesterases homologous to the dunce learning and memory gene product of Drosophila melanogaster are potential targets for antidepressant drugs. Molec. Cell. Biol. 13: 6558-6571, 1993. 2. Baillie G S, et al: Sub-family selective actions in the ability of Erk2 MAP kinase to phosphorylate and regulate the activity of PDE4 cyclic AMP-specific phosphodiesterases. Br J Pharmacol. 2000 Oct;131 (4):811-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1054412301
NCBI GeneID	5143
NCBI Accession #	NM_000923.5
NCBI GenBank Nucleotide #	NM_000923
UniProt Accession #	Q08493; Q9UN44; Q9UN45; Q9UN46; Q9UPJ6; B3KTC4
Molecular Weight	~75 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 4C (PDE4C), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 4C
NCBI Official Symbol	PDE4C
NCBI Official Synonym Symbols	DPDE1; PDE21
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4C
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4C
UniProt Gene Name	PDE4C
UniProt Synonym Gene Names	DPDE1

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/pde4c-recombinant-protein-sf9-pde-assay/73101>