

PDE6A recombinant protein

PDE6A, Active

CATALOG # AAA73105	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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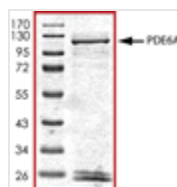
PRODUCT SYNONYMS

PDE6A; Active; PDE6A recombinant protein

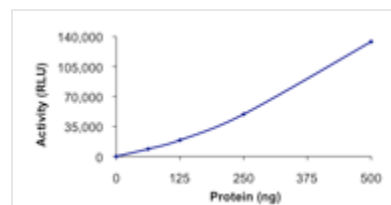
PRODUCT SPECIFICATIONS

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	31-end
Sequence Length	5659
Applicable Applications for PDE6A 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 PDE6A recombinant protein

Description: Recombinant human PDE6A (31-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE6A encodes the cyclic-GMP (cGMP)-specific phosphodiesterase 6A and is expressed in cells of the retinal rod outer segment. The phosphodiesterase 6 holoenzyme is a heterotrimer composed of an alpha, beta, and two gamma subunits. cGMP is an important regulator of rod cell membrane current, and its dynamic concentration is established by phosphodiesterase 6A cGMP hydrolysis and guanylate cyclase cGMP synthesis (1). The protein is a subunit of a key phototransduction enzyme and participates in processes of transmission and amplification of the visual signal. Mutations in this gene have been identified as one cause of autosomal recessive retinitis pigmentosa (2).

Product Categories/Family for PDE6A recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Pittler, S. J. et.al: Molecular characterization of human and bovine rod photoreceptor cGMP phosphodiesterase alpha- subunit and chromosomal localization of the human gene. Genomics 6: 272-283, 1990. 2. Danciger, M. et.al: Genetic mapping demonstrates that the alpha-subunit of retinal cGMP-phosphodiesterase is not the site of the rd mutation. Exp. Eye Res. 51: 185-189, 1990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170650673
NCBI GeneID	5145
NCBI Accession #	NM_000440.2
NCBI GenBank Nucleotide #	NM_000440
UniProt Accession #	P16499 ; Q0P638
Molecular Weight	~120 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 6A (PDE6A), mRNA
NCBI Official Synonym Full Names	phosphodiesterase 6A
NCBI Official Symbol	PDE6A
NCBI Official Synonym Symbols	PDEA; RP43; CGPR-A
NCBI Protein Information	rod cGMP-specific 3',5'-cyclic phosphodiesterase subunit alpha
UniProt Protein Name	Rod cGMP-specific 3',5'-cyclic phosphodiesterase subunit alpha
UniProt Gene Name	PDE6A
UniProt Synonym Gene Names	PDEA; GMP-PDE alpha

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://stage.aaabiotech.com/pde6a-recombinant-protein-sf9-insect-cells-using-baculovirus-pde-assay/73105>