

PDE3A active protein

PDE3A, Active

CATALOG #
AAA73099

HOST
Sf9 cells

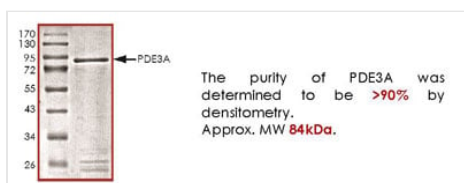
PRODUCT SYNONYMS

PDE3A; Active; PDE3A active protein

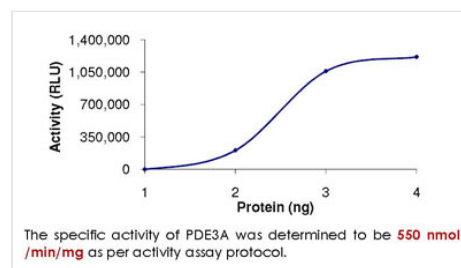
PRODUCT SPECIFICATIONS

Host	Sf9 cells
Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 ug/ml (varies by lot)
Specific Activity	550 nmol/min/mg
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	Shipping: Dry Ice 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



Purity Info



Specific Activity

ADDITIONAL INFORMATION

Related Product Information for PDE3A active protein

Description: Recombinant human PDE3A (669-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE3A is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE3A has high affinity for both cAMP and cGMP and shows competitive inhibition of the cAMP hydrolytic activity by cGMP (1). Deletion of the N-terminus of PDE3A enhances the hydrolysis of cGMP relative to cAMP suggesting that the role of divergent N-termini of various PDEs could be to exert substrate specificity. Stimulation of platelets with thrombin increases PDE3A activity via Akt signaling pathway and this increase can be diminished by dephosphorylation of PDE3A by protein phosphatase 1 (2).

Product Categories/Family for PDE3A active protein

Enzymes; Active Phosphodiesterases

References	1. Meacci E, et al: Molecular cloning and expression of human myocardial cGMP-inhibited cAMP phosphodiesterase. Proc. Nat. Acad. Sci. 89: 3721-3725, 1992. 2. Zhang W, et al: Thrombin regulates intracellular cyclic AMP concentration in human platelets through phosphorylation/activation of phosphodiesterase 3A. Blood. 2007 Sep 1;110 (5):1475-82.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	347658967
NCBI GeneID	5139
NCBI Accession #	NM_000921.4
NCBI GenBank Nucleotide #	NM_000921
UniProt Accession #	Q14432; O60865; Q13348; Q17RD1
Molecular Weight	~84 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 3A (PDE3A), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 3A
NCBI Official Symbol	PDE3A
NCBI Official Synonym Symbols	HTNB; CGI-PDE; CGI-PDE A; CGI-PDE-A
NCBI Protein Information	cGMP-inhibited 3',5'-cyclic phosphodiesterase A
UniProt Protein Name	cGMP-inhibited 3',5'-cyclic phosphodiesterase A
UniProt Gene Name	PDE3A
UniProt Synonym Gene Names	CGI-PDE A

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/sf9-active-protein/pde3a/73099>