

PDE3B recombinant protein

PDE3B, Active

CATALOG # AAA73098	HOST Sf9 insect cells using baculovirus	APPLICATIONS PDE Assay
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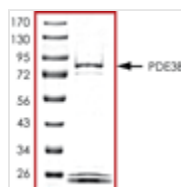
PRODUCT SYNONYMS

PDE3B; Active; PDE3B recombinant protein

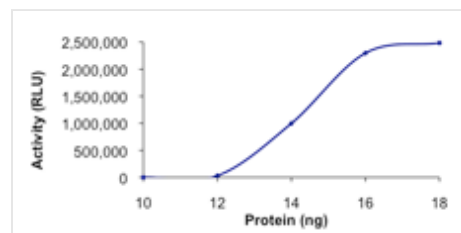
PRODUCT SPECIFICATIONS

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	654-end
Sequence Length	6091
Applicable Applications for PDE3B 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 PDE3B recombinant protein

Description: Recombinant human PDE3B (654-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE3B is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE3B has high affinity for cAMP and is inhibited by cGMP as well as specific inhibitors such as cilostamide and milrinone. PDE3B is phosphorylated and activated in response to insulin and agents that increase cAMP. Leptin can increase the activity of PDE3B in the hypothalamus leading to a decrease in cAMP concentration (1). PDE3B-knockout mice exhibited multiple alterations in regulation of lipolysis, lipogenesis, and insulin secretion, as well as signs of peripheral insulin resistance (2).

Product Categories/Family for PDE3B recombinant protein	Enzymes; Active Phosphodiesterases
References	1. Zhao A Z, et al: A phosphatidylinositol 3-kinase-phosphodiesterase 3B-cyclic AMP pathway in hypothalamic action of leptin on feeding. Nature Neurosci. 5: 727-728, 2002. 2. Choi Y H, et al: Alterations in regulation of energy homeostasis in cyclic nucleotide phosphodiesterase 3B-null mice. J. Clin. Invest. 116: 3240-3251, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219879808
NCBI GeneID	5140
NCBI Accession #	NM_000922.3
NCBI GenBank Nucleotide #	NM_000922
UniProt Accession #	Q13370; O00639; Q14408; Q6SEI4; B7ZM37
Molecular Weight	~85 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 3B (PDE3B), mRNA
NCBI Official Synonym Full Names	phosphodiesterase 3B
NCBI Official Symbol	PDE3B
NCBI Official Synonym Symbols	HcGIP1; cGIPDE1
NCBI Protein Information	cGMP-inhibited 3',5'-cyclic phosphodiesterase B
UniProt Protein Name	cGMP-inhibited 3',5'-cyclic phosphodiesterase B
UniProt Gene Name	PDE3B
UniProt Synonym Gene Names	CGIP1; CGI-PDE B

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/pde3b-recombinant-protein-sf9-insect-cells-using-baculovirus-pde-assay/73098>