

PDE7B active protein

PDE7B, Active

CATALOG # AAA73106	HOST Sf9 cells
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PRODUCT SYNONYMS

PDE7B; Active; PDE7B active protein

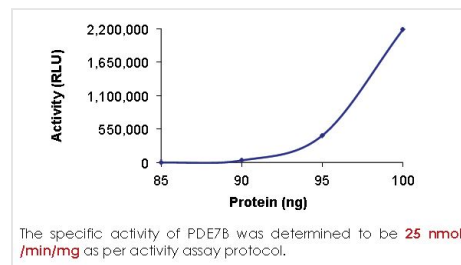
PRODUCT SPECIFICATIONS

Host	Sf9 cells
Purity/Purification	>75%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 ug/ul (varies by lot)
Specific Activity	25 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 PDE7B active protein	Description: Full-length recombinant human PDE7B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PDE7B is a cAMP-specific phosphodiesterase and a member of the cyclic nucleotide phosphodiesterase family that catalyzes the hydrolysis of cAMP to the corresponding 5'-monophosphate and provides a mechanism to downregulate cAMP signaling (1). PDE7B is over-expressed in chronic lymphocytic leukemia and inhibition of PDE7B leads to induction of apoptosis (2). PDE7B has been identified as a candidate gene for measuring treatment response to risperidone and may confer susceptibility to schizophrenia.
Product Categories/Family for PDE7B active protein	Enzymes; Active Phosphodiesterases

References	1. Hetman, J. M. et.al: Cloning and characterization of PDE7B, a cAMP-specific phosphodiesterase. Proc. Nat. Acad. Sci. 97: 472-476, 2000. 2. Ikeda, M. et al: Identification of novel candidate genes for treatment response to risperidone and susceptibility for schizophrenia: integrated analysis among pharmacogenomics, mouse expression, and genetic case-control association approaches. Biol Psychiatry. 2010 Feb 1;67 (3):263-9.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	57242789
NCBI GeneID	27115
NCBI Accession #	NM_018945.3
NCBI GenBank Nucleotide #	NM_018945
UniProt Accession #	Q9NP56; Q5W154
Molecular Weight	~73 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
NCBI Official Synonym Full Names	phosphodiesterase 7B
NCBI Official Symbol	PDE7B
NCBI Official Synonym Symbols	bA472E5.1
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 7B
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 7B
UniProt Gene Name	PDE7B

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.