

PDE1B active protein

PDE1B, Active

CATALOG #
AAA73094

HOST
Sf9 cells

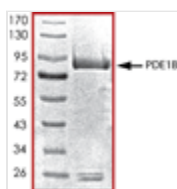
PRODUCT SYNONYMS

PDE1B; Active; PDE1B 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/ul (varies by lot)
Specific Activity	100 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	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. Shipping: Ships with dry ice

IMAGES



Purity

The purity of PDE1B was determined to be >90% by densitometry. Approx. MW 86kDa

ADDITIONAL INFORMATION

Related Product Information for PDE1B active protein

Description: Full-length recombinant human PDE1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: PDE1B is a member of the PDE protein superfamily that catalyzes the hydrolysis of the cyclic nucleotides cAMP and cGMP to the corresponding nucleoside 5-prime-monophosphates. PDE1B is a calmodulin-dependent enzyme that is stimulated by calcium-calmodulin complex (1). PDE1B is expressed in the lymphoblastic and leukemic cell lines and causes the cells to undergo apoptosis, suggesting PDE1B could be a novel therapeutic strategy for the treatment of leukemia (2). GM-CSF is a major regulator of monocyte to macrophage differentiation and this cytokine has been shown to up-regulate PDE1B.

Product Categories/Family for PDE1B active protein

Enzymes; Active Phosphodiesterases

References

1. Yu, J.et.al: Identification and characterisation of a human calmodulin-stimulated phosphodiesterase PDE1B1. Cell. Signal. 9: 519-529, 1997. 2. Jiang, X. et.al: Inhibition of calmodulin-dependent phosphodiesterase induces apoptosis in human leukemic cells. Proc. Nat. Acad. Sci. 93: 11236-11241, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	260436978
NCBI GeneID	5153
NCBI Accession #	NM_000924.3
NCBI GenBank Nucleotide #	NM_000924
UniProt Accession #	Q01064; Q92825; Q96KP3
Molecular Weight	~86 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 1B (PDE1B), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 1B
NCBI Official Symbol	PDE1B
NCBI Official Synonym Symbols	PDE1B1; PDES1B; HEL-S-79p
NCBI Protein Information	calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B
UniProt Protein Name	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B
UniProt Gene Name	PDE1B
UniProt Synonym Gene Names	PDE1B1; PDES1B; Cam-PDE 1B

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/pde1b/73094>