

PDE7A active protein

PDE7A, Active recombinant protein

CATALOG # AAA72929	HOST Sf9 insect cells
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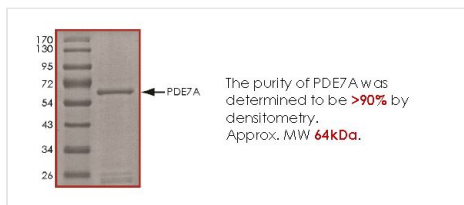
PRODUCT SYNONYMS

PDE7A; Active recombinant protein; CCK-4; CCK4; PTK7 Protein; PDE7A active protein

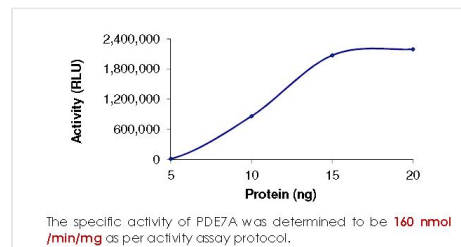
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>90%
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Specific Activity	160 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 PDE7A active protein	Recombinant human PDE7A (104-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PDE7A is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE7A is a high-affinity cAMP-specific PDE and is expressed in T cell lines, peripheral blood T lymphocytes, epithelial cell lines, airway and vascular smooth muscle cells, lung fibroblasts, and eosinophils. PDE7 plays a critical role in the regulation of human T cell function and selective PDE7 inhibitors are being examined to treat immunological and inflammatory disorders (1). PDE7A plays an important role in the regulation of osteoblastic differentiation (2). PDE7A depletion by RNAi upregulates expression of several osteogenic genes and increases mineralization.
Product Categories/Family for PDE7A active protein	Cellular Proteins; Enzymes - Active Phosphodiesterases

References	1.Nakata A, et al: Potential role of phosphodiesterase 7 in human T cell function: comparative effects of two phosphodiesterase inhibitors. Clin Exp Immunol. 2002 Jun;128(3):460-6. 2.Pekkinen M, et al: Effects of phosphodiesterase 7 inhibition by RNA interference on the gene expression and differentiation of human mesenchymal stem cell-derived osteoblasts. Bone. 2008 Jul;43(1):84-91.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	341823662
NCBI GeneID	5150
NCBI Accession #	NP_002594.1
NCBI GenBank Nucleotide #	NM_002603
UniProt Accession #	Q13946; O15380; Q96T72; A0AVH6; A8K436; A8K9G5
Molecular Weight	~64 kDa
NCBI Official Full Name	Homo sapiens phosphodiesterase 7A (PDE7A), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphodiesterase 7A
NCBI Official Symbol	PDE7A
NCBI Official Synonym Symbols	HCP1; PDE7
NCBI Protein Information	high affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A; TM22; phosphodiesterase isozyme 7
UniProt Protein Name	High affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A
UniProt Gene Name	PDE7A
UniProt Entry Name	PDE7A_HUMAN

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/sf9-insect-cells-active-protein/pde7a/72929>