Recombinant Human PDE7B

Cat. No. PDE7B-30823TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDE7B with an N-terminal proprietary tag, expressed by Baculovirus in Sf9 insect cells; MWt 73 kDa.
Species	Human
Source	Insect Cells
ProteinLength	450 amino acids
Description	The 3,5-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3,5-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a cAMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family.
Molecular Weight	73.000kDa inclusive of tags
Biological activity	The specific activity of PDE7B is determined to be 28 nmol/min/mg.
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium

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	chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	PDE7B phosphodiesterase 7B [Homo sapiens]
Official Symbol	PDE7B
Synonyms	PDE7B; phosphodiesterase 7B; cAMP-specific 3,5-cyclic phosphodiesterase 7B;
Gene ID	27115
mRNA Refseq	NM_018945
Protein Refseq	NP_061818
MIM	604645
Uniprot ID	Q9NP56
Chromosome Location	6q23-q24
Pathway	G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; hydrolase activity; metal ion binding;

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	phosphoric diester hydrolase activity;

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