

Recombinant Human PDE7B

Cat. No. PDE7B-30224TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 107-450 of Human PDE7B with N terminal proprietary tag, expressed in a Baculovirus infected Sf9 cell expression system, 66 kDa
Species	Human
ProteinLength	107-450 a.a.
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.
Biological activity	Specific Activity: 53 pmol/min/μg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

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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; phosphoric diester hydrolase activity;

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