

Active Recombinant Human PDE7B, GST-tagged

Cat. No. PDE7B-1532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PDE7B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	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. PDE7B is over-expressed in chronic lymphocytic leukemia and inhibition of PDE7B leads to induction of apoptosis. PDE7B has been identified as a candidate gene for measuring treatment response to risperidone and may confer susceptibility to schizophrenia.
Form	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.
Bio-activity	28 nmol/min/mg
Molecular Mass	~73 kDa
Purity	>80%

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Applications	PDE Assay
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	PDE7B phosphodiesterase 7B [Homo sapiens]
Official Symbol	PDE7B
Synonyms	PDE7B; phosphodiesterase 7B; cAMP-specific 3,5-cyclic phosphodiesterase 7B; rolipram-insensitive phosphodiesterase type 7; high-affinity cAMP-specific 3,5-cyclic phosphodiesterase; bA472E5.1; MGC88256;
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

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events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Morphine addiction, organism-specific biosystem; Morphine addiction, conserved biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;

Function

3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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