

Active Recombinant Human PDE8B, GST-tagged

Cat. No. PDE8B-1614H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PDE8B (113-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	113-end
Description	The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.
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	40 nmol/min/mg
Molecular Mass	~115 kDa
Purity	>85%
Applications	PDE Assay

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Stability	1 yr at -70oC from date of shipment.
Storage	Store product at –70oC. 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.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	PDE8B phosphodiesterase 8B [Homo sapiens]
Official Symbol	PDE8B
Synonyms	PDE8B; phosphodiesterase 8B; high affinity cAMP-specific and IBMX-insensitive 3,5-cyclic phosphodiesterase 8B
Gene ID	8622
mRNA Refseq	NM_003719
Protein Refseq	NP_003710
MIM	603390
UniProt ID	O95263
Chromosome Location	5q13.3
Pathway	G Protein Signaling Pathways; GPCR downstream signaling; Purine metabolism

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Function

3',5'-cyclic-AMP phosphodiesterase activity; 3',5'-cyclic-nucleotide phosphodiesterase activity; metal ion binding

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