Recombinant Human PDE8B

Cat. No. PDE8B-30225TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PDE8B with N-terminal proprietary tag, 115kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	773 amino acids
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.
Molecular Weight	115.000kDa inclusive of tags
Tissue specificity	Abundantly expressed in the thyroid. Also very weakly expressed in brain, spinal cord and placenta. In the thyroid isoform 1 predominates, and isoforms 2 and 6 are also highly expressed. In the placenta isoforms 1 and 2 are expressed equally. In the brain
Biological activity	The Specific activity of PDE8B-30225TH was determined to be 40 nmol/min/mg.
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium 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.
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE8 subfamily.Contains 1 PAS (PER-ARNT-SIM) domain.

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_001029851
Protein Refseq	NP_001025022
MIM	603390
Uniprot ID	O95263
Chromosome Location	5q14.1
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; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	3,5-cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity; two-component response regulator activity;

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