

Recombinant Human PDE4B, GST-tagged

Cat. No. PDE4B-30819TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length PDE4B protein (Human) with an N terminal GST tag. MW 109kDa. Source: Baculovirus infected Sf9 cells.
Species	Human
Description	This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light, and neurotransmitters. The cyclic nucleotide phosphodiesterases (PDEs) regulate the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. This gene encodes a protein that specifically hydrolyzes cAMP. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Conjugation	GST
Tissue specificity	Expressed in brain, heart, lung and skeletal muscle.
Biological activity	Specific Activity: 10000 U/μg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 5mM Glutathione, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE4 subfamily.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PDE4B phosphodiesterase 4B, cAMP-specific [Homo sapiens]
Official Symbol	PDE4B
Synonyms	PDE4B; phosphodiesterase 4B, cAMP-specific; DPDE4, phosphodiesterase 4B, cAMP specific (dunce (Drosophila) homolog phosphodiesterase E4) , phosphodiesterase 4B, cAMP specific (phosphodiesterase E4 dunce homolog, Drosophila); cAMP-specific 3,5-cyclic pho
Gene ID	5142
mRNA Refseq	NM_001037339
Protein Refseq	NP_001032416
MIM	600127
Uniprot ID	Q07343
Chromosome Location	1p31
Pathway	DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways,

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organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;

Function

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

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