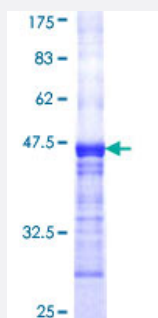


PDE4B (Human) Recombinant Protein (Q01)

Catalog # H00005142-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PDE4B partial ORF (NP_002591, 637 a.a. - 736 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	DAQDILDTLEDNRNWYQSMIPQSPSPPLDEQNRDCQGLMEKFQFELTLDEEDSEGPEKEGEGH SYFSSTKTLGVDPENRDSLGETDIDIATEDKSPVDT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (95)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PDE4B

Entrez GeneID	5142
GeneBank Accession#	NM_002600
Protein Accession#	NP_002591
Gene Name	PDE4B
Gene Alias	DKFZp686F2182, DPDE4, MGC126529, PDE4B5, PDEIVB
Gene Description	phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)
Omim ID	600127
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000010652 OTTHUMP00000010656 OTTHUMP00000046896 cAMP-specific 3',5'-cyclic phosphodiesterase 4B cAMP-specific phosphodiesterase-4 B isoform dunce-like phosphodiesterase E4 phosphodiesterase 4B, cAMP-specific phosphodiesterase 4B, cAMP-specific (d

Pathway

- [Purine metabolism](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Dyskinesia](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Neuropsychological Tests](#)
- [Postmortem Changes](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)