Recombinant Human PDE4B, GST-tagged, Active

Cat. No. PDE4B-476H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman PDE4B (305-end) was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=78kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	305-end a.a.
Description	PDE4B is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and has homology to the "dunce" gene of Drosophila. The "dunce" gene is one of several genes critical for normal learning and memory in the fly. Altered activity of PDE4B has been associated with schizophrenia and bipolar affective disorder. DISC1 interacts with the UCR2 domain of PDE4B and elevation of cellular cAMP leads to dissociation of PDE4B from DISC1 and in increase in PDE4B activity. PDE4B gene itself does not link to major depressive disorder (MDD) but elevated mRNA levels of PDE4B have been implicated in the pathophysiology of MDD.
Sequence	305-end.
Applications	PDE Assay.
Storage And Stability	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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	performance, avoid repeated handling and multiple freeze/thaw cycles.
22q13.33	1p31

GENE INFORMATION

Gene Name	PDE4B phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) [Homo sapiens]
Synonyms	PDE4B; phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila); OTTHUMP00000010652; cAMP-specific 3",5"-cyclic phosphodiesterase 4B; cAMP-specific phosphodiesterase-4 B isoform; dunce-like phosphodiesterase E4; phosphodiesterase 4B; phosphodiesterase 4B, cAMP-specific; DPDE4; PDE4B5; PDEIVB; MGC126529; DKFZp686F2182; EC 3.1.4.17
Gene ID	5142
mRNA Refseq	NM_001037339
Protein Refseq	NP_001032416
MIM	600127
UniProt ID	Q07343
Pathway	Progesterone-mediated oocyte maturation; Purine metabolism; Signaling by GPCR
Function	3",5"-cyclic-AMP phosphodiesterase activity; hydrolase activity

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