

Product datasheet for TP311956

PDE4 (PDE4B) (NM_002600) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) (PDE4B), transcript variant a, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211956 representing NM_002600 Red=Cloning site Green=Tags(s)

MKKSRSVMTVMADDNVKDYFECSLKSYSSSSNTLGIDLWRGRRCCSGNLQLPPLSQRQSERARTPEGDG
ISRPTTLPLTLLPSIAITTVSQECFDVENGPSPGRSPLDPQASSSAGLVLHATFPGHSQRRESFLYRSDS
DYDLSPKAMSRNSSLPSEQHGDDLIVTPFAQVLASLRVRNFTILTNLHGTSNKRSPAASQPPVSRVNP
QEESYQKLAMETLEELDWCLDQLETIQTYRSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFL
DKQNDVEIPSPTQKDREKKKKQLMTQISGVKMLHSSSLNNTSISRFGVNTENEDHLAKELEDLNKWGL
NIFNVAGYSHNRPLTCIMYAIFQERDLLKTRISSDTFITYMMTLEDHYHSDVAYHNSLHAADVAQSTHV
LLSTPALDAVFTDLEILAAIFAAAHDVDHPGVSNQFLINTNSELALMYNDESVLNHHLAVGFKLLQEE
HCDIFMNLTKKQRQTLRKMVIDMVLATDMSKHMSLLADLKTMMVETKKTSSGVLLEDNYTDRIQVLRNMV
HCADLSNPTKSLELYRQWTDRIEMEFFQQGDKERERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETW
ADLVQPDAQDILDTLNDRNRYQSMIPQSPSPPLDEQNRDCQGLMEKFQFELTLDEEDSEGPEKEGEGHS
YFSSTKTLVIDPENRDSLGETDIDIATEDKSPVDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	83.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002591
Locus ID:	5142
UniProt ID:	Q07343 , X5DNX5
RefSeq Size:	4264
Cytogenetics:	1p31.3
RefSeq ORF:	2208
Synonyms:	DPDE4; PDEIVB
Summary:	This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. The encoded protein regulates the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism

Product images:



Coomassie blue staining of purified PDE4B protein (Cat# TP311956). The protein was produced from HEK293T cells transfected with PDE4B cDNA clone (Cat# [RC211956]) using MegaTran 2.0 (Cat# [TT210002]).