

## Product datasheet for **TP311956M**

### **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, 100 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  
HCDIFMNLTKKQRQTLRKMVIDMVLATDMSKHMSLLADLKTMTVETKKTSSGVLLEDNYTDRIQVLRNMV  
HCADLSNPTKSLELYRQWTDRIEEMFFQQGDKERERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETW  
ADLVQPDAQDILDTLNDRNRYQSMIPQSPSPPLDEQNRDCQGLMEKFQFELTLDEEDSEGPEKEGEGHS  
YFSSTKTLVIDPENRDSLGETDIDIATEDKSPVDT

**TR**TRPLE**QKLISEEDLAANDILDYKDDDDKV**

**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:	<a href="#">NP_002591</a>
Locus ID:	5142
UniProt ID:	<a href="#">Q07343</a> , <a href="#">X5DNX5</a>
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]).