

Product datasheet for TP318974

PDE5A (NM_033430) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphodiesterase 5A, cGMP-specific (PDE5A), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218974 representing NM_033430 Red =Cloning site Green =Tags(s)

MLPFGDKTREMVNAWFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPTRKISASEFDRPLRP
IVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLELVKDISSHLDVDLALCHKIFLHIHGLISA
DRYSLFLVCEDSSNDKFLISRLFDVAEGSTLEEVSNNCIRLEWNGIVGHVAALGEPLNIKDAYEDPRFN
AEVDQITGYKTQSILCMPIKHNHREEVVGVAQAINKKSGNGGTFTEKDEKFAAYLAFCGIVLHNAQLYET
SLLLENKRNVLLDLASLIFEQQSLEVLKKAATIIISFMQVQKCTIFIVDEDCSDSFSSVFHMECEELE
KSSDTLTREHDANKINYMYAQYVKNTEPLNIPDVSCKDRFPWTTENTGNVNVQQCIRSLCTPIKNGKKN
KVIGVCQLVNKMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQNTQMYEAVERAMAKQMMTLEVLSYHAS
A
AEEETRELQSLAAAVPSAQT KITDFSFDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSV
KKNYRKNVAYHNWRHAFNTAQCMAALKAGKIQNKLTDLLEILALLIAALSHDLDRGVNNSYIQRSEHPL
AQLYCHSIMHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKIIKQAILATDLALYIKRRGEFFELIRKN
QFNLEDPHQKELFLAMLMTACDLSAITKPWPIQQRIAEVATEFFDQGDREKELNIEPTDLMNREKKNK
IPSMQVGFIDAICLQLYEALTHVSEDCFPLLDGCRKNRQKWQALAEQQEKMLINGESGQAKRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

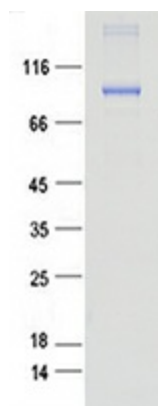
Tag:	C-Myc/DDK
Predicted MW:	94.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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_236914
Locus ID:	8654
UniProt ID:	O76074
RefSeq Size:	6836
Cytogenetics:	4q26
RefSeq ORF:	2499
Synonyms:	CGB-PDE; CN5A; PDE5
Summary:	This gene encodes a cGMP-binding, cGMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family. This phosphodiesterase specifically hydrolyzes cGMP to 5'-GMP. It is involved in the regulation of intracellular concentrations of cyclic nucleotides and is important for smooth muscle relaxation in the cardiovascular system. Alternative splicing of this gene results in three transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism

Product images:



Coomassie blue staining of purified PDE5A protein (Cat# TP318974). The protein was produced from HEK293T cells transfected with PDE5A cDNA clone (Cat# [RC218974]) using MegaTran 2.0 (Cat# [TT210002]).