

## Product datasheet for TP318974L

### 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, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218974 representing NM_033430 Red=Cloning site Green=Tags(s)

MLPFGDKTREMVNAWFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPTRKISASEFDRPLRP  
IVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLLELVKDISSHLDTALCHKIFLHIHGLISA  
DRYSLFLVCESSNDKFLISRLFDVAEGSTLEEVSNNCIRLEWNGKIVGHVAALGEPLNIKDAYEDPRFN  
AEVDQITGYKTQSILCMPIKNHREEVGVQAQAINKSGNGGTFTEKDEKDFAAAYLAFCGIVLHNAQLYET  
SLLLENKRNVLLDLASLIFEEQQSLEVILKKAATIISFMQVQKCTIFIVDEDCSDSFSSVFHMECEELE  
KSSDTLTREHDANKINMYAQYVKNTMEPLNIPDVSKDKRFPWTTENTGNVNVQCIRLLCTPIKNGKKN  
KVIGVCQLVKNMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQNTQMYEAVERAMAKQMVTVLEVLSYHASA  
AEEETRELQSLAAAVPSAQTCLKITDFSFDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSV  
KKNYRKNVAYHNWRHAFNTAQCMFAALKAGKIQNKLTDEILALLIAALSHDLDRGVNNSYIQRSEHPL  
AQLYCHSIMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKIQQAILATDLALYIKRRGEFFELIRKN  
QFNLEDPHQKELFLAMLMTACDLSAITKPWPIQQRIAEVATEFFDQGDREKELNIEPTDLMNREKKNK  
IPSMQVGFIDAICLQLYEALTHVSEDCFPLLDGCRKNRQKWQALAEQQEKMLINGESGQAKRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

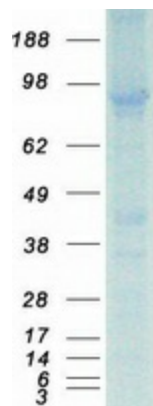
Tag:	C-Myc/DDK
Predicted MW:	94.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity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



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_236914</a>
<b>Locus ID:</b>	8654
<b>UniProt ID:</b>	<a href="#">O76074</a>
<b>RefSeq Size:</b>	6836
<b>Cytogenetics:</b>	4q26
<b>RefSeq ORF:</b>	2499
<b>Synonyms:</b>	CGB-PDE; CN5A; PDE5
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).