

# Recombinant Human PDE5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDE5A-2039H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	PDE5A MS Standard C13 and N15-labeled recombinant protein (NP_236914) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</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.
<b>Molecular Mass</b>	94.6 kDa
<b>AA Sequence</b>	MLPFGDKTREMVNAWFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPT RKISASEFDRPLRPVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLLE VKDISSHLDTALCHKIFLHIHGLISADRYSLFLVCESSNDKFLISRLFDVAEGSTLEE VSNNCIRLEWNGKIVGHVAALGEPLNIKDAYEDPRFNAEVDQITGYKTQSILCMPKIN HREEVVGVAQAINKKSGNGGTFTEKDEKDFAAYLAFCGIVLHNAQLYETSLLLENKRN QVLLDLASLIFEEQQSLEVLKKAATIISFMQVQKCTIFVDEDCSDSFSSVFHMECEE LEKSSDTLTREHDANKINMYAQYVKNTMEPLNIPDVSKDKRFPWTTENTGNVNQQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CIRSLCTPIKNGKKNKVVIGVCQLVKNKMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQ  
 NTQMYEAVERAMAKQMVTLEVLVSYHASAAEEETRELQSLAAAVVPSAQTTLKITDFSF  
 SDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLRCRWILSVKKNYRKNVAYHNWRH  
 AFNTAQCMFAALKAGKIQNKLTDLLEILALLIAALSHDLDRGVNNSYIQRSEHPLAQLY  
 CHSIMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKIIKQAILATDLALYIKRRGEFFE  
 LIRKNQFNLEDPHQKELFLAMLMTACDLSAITKPWPIQQRIAEVATEFFDQGDREK  
 ELNIEPTDLMNREKKNKIPSMQVGFIDAICLQLYEALTHVSEDCFPLLDGCRKNRQK  
 WQALAEQQEKMLINGESGQAKRNRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** PDE5A phosphodiesterase 5A [ Homo sapiens (human) ]

**Official Symbol** PDE5A

**Synonyms** PDE5A; phosphodiesterase 5A, cGMP-specific; cGMP-specific 3,5-cyclic phosphodiesterase; phosphodiesterase isozyme 5; cGMP-specific phosphodiesterase PDE5A2; cGMP-specific phosphodiesterase type 5A; cGMP-binding cGMP-specific 3,5-cyclic nucleotide phosphodiesterase; CN5A; PDE5; CGB-PDE;

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**Gene ID** 8654

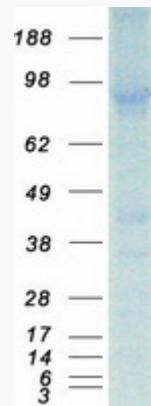
**mRNA Refseq** NM\_033430

**Protein Refseq** NP\_236914

**MIM** 603310

**UniProt ID** O76074

**SDS-PAGE**



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