

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

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

SPECIFICATION

Product Overview	PDE5A MS Standard C13 and N15-labeled recombinant protein (NP_236914) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	94.6 kDa
AA Sequence	MLPFGDKTREMVNAWFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPT RKISASEFDRPLRPIVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLLE VKDISSHLDTALCHKIFLHIHGLISADRYSLFLVCEDSSNDKFLISRLFDVAEGSTLEE VSNNCIRLEWNKGIVGHVAALGEPLNIKDAYEDPRFNAEVDQITGYKTQSILCMPKIN HREEVVGVAQAINKKSGNGGTFTEKDEKDFAAYLAFCGIVLHNAQLYETSLLLENKRN QVLLDLASLIFEEQQSLEVLKKIAATIISFMQVQKCTIFIVDEDCSDSFSSVFHMECEE LEKSSDTLTREHDANKINYMYAQYVKNTMEPLNIPDVSKDKRFPWTTENTGNVNQQ

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CIRSLCTPIKNGKKNKVIGVCQLVNKMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQ
 NTQMYEAVERAMAKQMTLEVLSYHASAAEEETRELQSLAAAVVPSAQTTLKITDFS
 SDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSVKKNYRKNVAYHNWRH
 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	