

Recombinant Full Length Human PDE5A Protein, Flag tagged

Cat. No. PDE5A-03HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human phosphodiesterase 5A, cGMP-specific (PDE5A), transcript variant 2 with C-Flag tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-875 aa
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	94.6 kDa
AASequence	MLPFGDKTREMVNFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSVPGTPT RKISASEFDRPLRPVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLLLEL VKDISSHLDTALCHKIFLHIHGLISADRYSLFLVCEDSSNDKFLISRLFDVAEGSTLEE VSNNCIRLEWNGKIVGHVAALGEPLNIKDAYEDPRFNAEVDQITGYKTQSILCMPIKN HREEVVGVAQAINKKSGNGGTFTEKDEKDFAAFLAFCGIVLHNAQLYETSLLENKRN

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QVLLDLASLIFEEQQSLEVLKkiaaTiISFMQVQKCTIFVDEDCSDSFSSVFHMECEE
LEKSSDTLTREHDANKINyMYAQYVKNTMEPLNIPDVSKDKRFPWTTENTGNVNQQ
CIRSLCTPIKNGKKNKvIGVCQLVNKMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQ
NTQMYEAVERAMAKQMTLEVLSYHASAAEEETRELQSLAAAVVPSAQTlKITDFSf
SDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSVKKNYRKNVAYHNWRH
AFNTAQCMFAALKAGKIQNKLTDLEILALLIAALSHDLDRGVNNSYIQRSEHPLAQLY
CHSIMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTlKIIQAILATDLALYIKRRGEFFE
LIRKNQFNLEDPHQKELFLAMLMTACDLSAITKPWPIQQRIAELVATEFFDQGDREK
ELNIEPTDLMNREKKNKIPSMQVGFIDAICLQLYEALTHVSEDCFPLLDGCRKNRQK
WQALAEQQEKMLINGESGQAKRNTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration pr centigradeess.

Storage Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Concentration > 0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name PDE5A phosphodiesterase 5A, cGMP-specific [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;

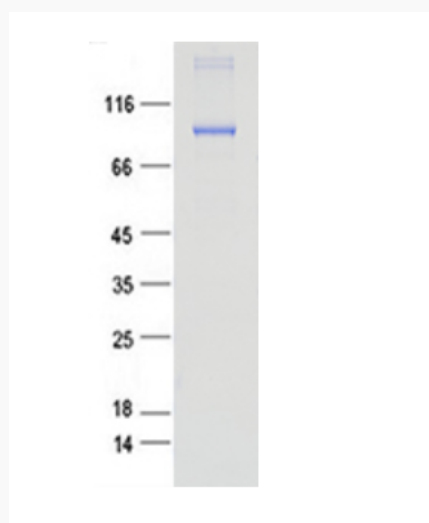
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Gene ID	8654
mRNA Refseq	NM_033430
Protein Refseq	NP_236914
MIM	603310
UniProt ID	O76074

SDS-PAGE and WB



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