

Product datasheet for PH318974

PDE5A (NM_033430) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PDE5A MS Standard C13 and N15-labeled recombinant protein (NP_236914)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218974
Predicted MW:	94.6 kDa
Protein Sequence:	>RC218974 representing NM_033430 Red=Cloning site Green=Tags(s)

MLPFGDKTREMVAWFAERVHTIPVCKEGIRGHTESCSCPLQQSPRADNSAPGTPTRKISASEFDRPLRP
IVVKDSEGTVSFLSDSEKKEQMPLTPPRFDHDEGDQCSRLELVKDISSHLDVTALCHKIFLHIHGLISA
DRYSLFLVCEDESSNDKFLISRFDVAEGSTLEEVSNCCIRLEWNKGI VGHVAALGEPLNIKDAYEDPRFN
AEVDQITGYKTQSILCMPKINHREEVGVAQAINKSGNGGTFTEKDEKDFAAAYLAFCGIVLHNAQLYET
SLLLENKRNVLLDLASLIFEEQQSLEVILKKAATIIISFMQVQKCTIFIVDEDCSDFSSVFHMECEELE
KSSDTLTREHDANKINYMYAQYVKNTEPLNIPDVSKDKRFPWTENTGNVNQQCIRSLCTPIKNGKKN
KVI GVCQLV NKMEENTGKVKPFNRNDEQFLEAFVIFCGLGIQNTQMYEAVERAMAKQMVTEVLSYHASA
AEEETRELQSLAAAVVPSAQTLEITDFSFDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSV
KKNYRKNVAYHNWRHAFNTAQCMFAALKAGKIQNKLTDL EILALLIAALSHDLDRGVNNSYIQRSEHPL
AQLYCHSIMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKI I KQAILATDLALYIKRRGEFFELIRKN
QFNLEDPHQKELFLAMLMTACDLSAITKPWPIQQRIAELVATEFFDQGDREKELNIEPTDLMNREKKNK
IPSMQVGFIDAICLQLYEALTHVSEDCFPLLDGCGRKNRQKWQALAEQQEKMLINGESGQAKRN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_236914



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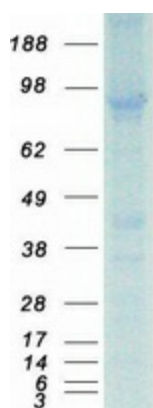
RefSeq Size:	6836
RefSeq ORF:	2499
Synonyms:	CGB-PDE; CN5A; PDE5
Locus ID:	8654
UniProt ID:	Q76074
Cytogenetics:	4q26

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]).