

Recombinant Full Length Human PDE11A Protein, C-Flag-tagged

Cat. No. PDE11A-1908HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDE11A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The 3',5'-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3',5'-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5'-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a member of the PDE protein superfamily. Mutations in this gene are a cause of Cushing disease and adrenocortical hyperplasia. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	104.6 kDa
AA Sequence	MAASRLDFGEVETFLDRHPELFEDYLMRKGKQEMVEKWLQRHSQGQGALGPRPSL AGTSSLAHSTCRGGS SVGGGTGPNGSAHSQPLPGGGDCGGVPLSPSWAGGSRG DGNLQRRASQKELRKSFARSKAIHVNRTYDEQ VTSRAQEPLSSVRRRALLRKASSL PPTTAHILSALLESRVNLPQYPPTAIDYKCHLKKHNERQFFLELVK DISNDLDTLSLY

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KILIFVCLMVDADRCSLFLVEGAAAGKKTLSKFFDVHAGTPLLLPCSSSTENSNEVQV
 PWGKGIIGYVGEHGETVNIPDAYQDRRFNDEIDKLTGYKTKSLLCMPRSSDGEIIGV
 AQAINKIPEGAP FTEDDEKVMQMYLPFCGIAISNAQLFAASRKEYERSRALLEVND
 LFEEQTDLEKIVKKIMHRAQTLLKC ERCSVLLLEDIESPVVKFTKSFELMSPKCSADA
 ENSFKESMEKSSYSDWLINNSIAELVASTGLPVNISD AYQDPRFDAEADQISGFHIRS
 VLCVPIWNSNHQIIGVAQVLNRLDGKPFDDADQRLFEAFVIFCGLGINN TIMYDQVKK
 SWAKQSVALDVLSYHATCSKAEVDKFKAAANIPLVSELAIDDIHFDDFSLDVDAMITAA
 LRM FMELGMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAFNVCQLMFAMLT
 AGFQDILTEVEILAVIVG CLCHDLDRGTNNAFQAKSGSALAQLYGTSATLEHHHFN
 HAVMILQSEGHNIFANLSSKEYSDLMQLLKQ SILATDLTLYFERRTEFFELVSKGEYD
 WNIKNHRDIFRSMMLTACDLGAVTKPWEISRQVAELVTSEFFE QGDRERLELKLTP
 SAIFDRNRKDELPRLQLEWIDSICMPYQALVKVNVKLKPM LDSVATNRSKWHEELHQ
 KRLLASTASSSPASVMVAKEDRN TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Progesterone-mediated oocyte maturation, Purine metabolism

Full Length
Full L.

GENE INFORMATION

Gene Name PDE11A phosphodiesterase 11A [Homo sapiens (human)]

Official Symbol PDE11A

Synonyms PPNAD2

Gene ID 50940

mRNA Refseq NM_016953.4

Protein Refseq NP_058649.3

MIM 604961

UniProt ID Q9HCR9

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Coomassie blue staining of purified PDE11A protein.

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