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

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

## SPECIFICATION

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| **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 DISNDLDLTSLSY |

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| | KILIFVCLMVDADRCSLFLVEGAAAGKKTLVSKFFDVHAGTPLLPCSSTENSNEVQV PWGKGIIGYVGEHGETVNIPDAYQDRRFNDEIDKLTGYKTKSLLCMPIRSSDGEIIGV AQAINKIPEGAP FTEDDEKVMQMYLPFCGIAISNAQLFAASRKEYERSRALLEVVND LFEEQTDLEKIVKKIMHRAQTLLKC ERCSVLLLEDIESPVVKFTKSFELMSPKCSADA ENSFKESMEKSSYSDWLINNSIAELVASTGLPVNISD AYQDPRFDAEADQISGFHIRS VLCVPIWNSNHQIIGVAQVLNRLDGKPFDDADQRLFEAFVIFCGLGINN TIMYDQVKK SWAKQSVALDVLSYHATCSKAEVDKFKAANIPLVSELAIDDIHFDDFSLDVDAMITAA LRM FMELGMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAFNVCQLMFAMLTT AGFQDILTEVEILAVIVG CLCHDLDHRGTNNAFQAKSGSALAQLYGTSATLEHHHFN HAVMILQSEGHNIFANLSSKEYSDLMQLLKQ SILATDLTLYFERRTEFFELVSKGEYD WNIKNHRDIFRSMLMTACDLGAVTKPWEISRQVAELVTSEFFE QGDRERLELKLTP SAIFDRNRKDELPRLQLEWIDSICMPLYQALVKVNVKLKPMLDSVATNRSKWEELHQ 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 |

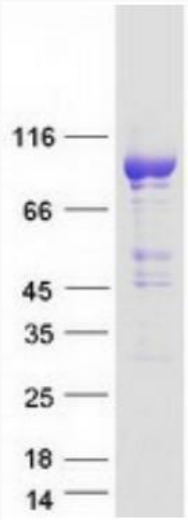
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| **Full Length** | Full L. |

## GENE INFORMATION

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| **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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