

Recombinant Human Phosphodiesterase 11A, GST-tagged

Cat. No. PDE11A-441H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDE11A, full length with N-terminal GST tag expressed in <i>aBaculovirus infected Sf9 cell</i> expression system. MW = 131kDa.
Species	Human
Source	Sf9 Cells
Description	Dual 3",5"-cyclic-AMP and -GMP phosphodiesterase 11A is an enzyme that in humans is encoded by the PDE11A gene. 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.
Purity	>80%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.
Stability	>6 months at –80°C.

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Full Length
Full L.

GENE INFORMATION

Gene Name

PDE11A phosphodiesterase 10A [Homo sapiens]

Synonyms

PDE11A; phosphodiesterase 11A; PPNAD2; FLJ23693; MGC133355; MGC133356; EC 3.1.4.17; EC 3.1.4.35; OTTHUMP00000205272; cAMP and cGMP cyclic nucleotide phosphodiesterase 11A; cyclic nucleotide phosphodiesterase 11A; dual 3",5"-cyclic-AMP and -GMP phosphodiesterase 11A

Gene ID

50940

mRNA Refseq

NM_001077196

Protein Refseq

NP_001070664

MIM

604961

UniProt ID

Q9HCR9

**Chromosome
Location**

2q31.2

Pathway

Progesterone-mediated oocyte maturation; Purine metabolism; Signaling by GPCR

Function

3",5"-cyclic-GMP phosphodiesterase activity; cAMP binding; cGMP binding; hydrolase activity; magnesium ion binding

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