Recombinant Human PDE3A, GST-tagged, Active

Cat. No. PDE3A-473H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman PDE3A (669-end) was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=84kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	669-end a.a.
Description	PDE3A is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE3A has high affinity for both cAMP and cGMP and shows competitive inhibition of the cAMP hydrolytic activity by cGMP. Deletion of the N-terminus of PDE3A enhances the hydrolysis of cGMP relative to cAMP suggesting that the role of divergent N-termini of various PDEs could be to exert substrate specificity.
Sequence	669-end.
Applications	PDE Assay.
Storage And Stability	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
22q13.33	12p12

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GENE INFORMATION

Gene Name	PDE3A phosphodiesterase 3A, cGMP-inhibited [Homo sapiens]
Synonyms	PDE3A; phosphodiesterase 3A, calmodulin-dependent; cGMP-inhibited 3",5"-cyclic phosphodiesterase A; cyclic GMP inhibited phosphodiesterase A; phosphodiesterase 3A; CGI-PDE; EC 3.1.4.17
Gene ID	5139
mRNA Refseq	NM_000921
Protein Refseq	NP_000912
MIM	123805
UniProt ID	Q14432
Pathway	Progesterone-mediated oocyte maturation; Purine metabolism; Signaling by GPCR; Insulin signaling pathway
Function	3",5"-cyclic-AMP phosphodiesterase activity; cGMP-inhibited cyclic-nucleotide phosphodiesterase activity; hydrolase activity

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