Recombinant Human PDE2A, GST-tagged, Active

Cat. No. PDE2A-472H **Lot. No.** (See product label)

SPECIFICATION

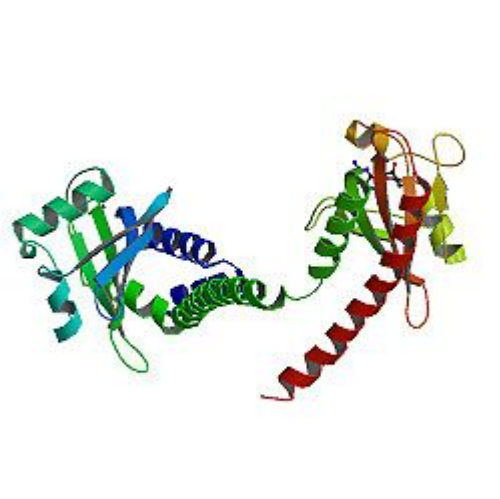
Product Overview	Recombinant full-length human PDE2A was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=130kDa.
Species	Human
Source	Sf9 Cells
Description	PDE2A is a member of the cyclic nucleotide phosphodiesterase family. PDE2A is a cGMP-specific phosphodiesterase and hydrolyzes cGMP to 5"-GMP. TNFα stimulation of cells leads to an increase in PDE2A expression in a p38 mitogen-activated protein kinase (MAPK)-dependent manner. TNFα-mediated up-regulation of PDE2A may destabilize endothelial barrier function in sepsis. In addition, selective PDE2A up-regulation sensitizesendothelial cells toward the permeability-increasing agent thrombin. Furthermore, PDE2A inhibition is effective in preventing thrombin-induced lung edema.
Sequence	Full length.
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	11q13.4

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GENE INFORMATION

Gene Name	PDE2A phosphodiesterase 2A, cGMP-stimulated [Homo sapiens]
Synonyms	PDE2A; phosphodiesterase 2A, calmodulin-dependent; cGMP-stimulated phosphodiesterase 1; cGMP-stimulated phosphodiesterase 4; phosphodiesterase 2A; PDE2A1; PED2A4; EC 3.1.4.17
Gene ID	5138
mRNA Refseq	NM_001143839
Protein Refseq	NP_001137311
MIM	602658
UniProt ID	O00408
Pathway	Progesterone-mediated oocyte maturation; Purine metabolism; Signaling by GPCR
Function	cGMP-stimulated cyclic-nucleotide phosphodiesterase activity; hydrolase activity; protein binding

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PDB rendering based on 1mc0.	

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