

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. TNF α stimulation of cells leads to an increase in PDE2A expression in a p38 mitogen-activated protein kinase (MAPK)-dependent manner. TNF α -mediated up-regulation of PDE2A may destabilize endothelial barrier function in sepsis. In addition, selective PDE2A up-regulation sensitizes endothelial 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 -70°C. 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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