

Recombinant Human PDE3B, GST-tagged, Active

Cat. No. PDE3B-474H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman PDE3B (654-end) was expressed by <i>baculovirus</i> in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW=85kDa.
Species	Human
Source	Sf9 Cells
Protein Length	654-end a.a.
Description	PDE3B is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE3B has high affinity for cAMP and is inhibited by cGMP as well as specific inhibitors such as cilostamide and milrinone. PDE3B is phosphorylated and activated in response to insulin and agents that increase cAMP. Leptin can increase the activity of PDE3B in the hypothalamus leading to a decrease in cAMP concentration.
Sequence	654-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	11p15

 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	PDE3B phosphodiesterase 3B, cGMP-inhibited [Homo sapiens]
Synonyms	PDE3B; phosphodiesterase 3B, calmodulin-dependent; HcGIP1; cGIPDE1; cyclic nucleotide phosphodiesterase; phosphodiesterase 3B; EC 3.1.4.17
Gene ID	5140
mRNA Refseq	NM_000922
Protein Refseq	NP_000913
MIM	602047
UniProt ID	Q13370
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; hydrolase activity; protein kinase B binding

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