Active Recombinant Human PDE3B, GST-tagged

Cat. No. PDE3B-1526H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PDE3B (654-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	654 aa-end
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. PDE3B-knockout mice exhibited multiple alterations in regulation of lipolysis, lipogenesis, and insulin secretion, as well as signs of peripheral insulin resistance.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	156 nmol/min/mg
Molecular Mass	~85 kDa

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

Purity	>70%
Applications	PDE Assay
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	PDE3B phosphodiesterase 3B, cGMP-inhibited [Homo sapiens]
Official Symbol	PDE3B
Synonyms	PDE3B; phosphodiesterase 3B, cGMP-inhibited; cGMP-inhibited 3,5-cyclic phosphodiesterase B; HcGIP1; CGIP1; CGI-PDE B; cyclic nucleotide phosphodiesterase; cyclic GMP-inhibited phosphodiesterase B; cGIPDE1;
Gene ID	5140
mRNA Refseq	NM_000922
Protein Refseq	NP_000913
MIM	602047
UniProt ID	Q13370
Chromosome Location	11p15.2

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

Pathway	Class IB PI3K non-lipid kinase events, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; cAMP binding; cGMP-inhibited cyclic-nucleotide phosphodiesterase activity; drug binding; hydrolase activity; metal ion binding; phosphoprotein binding; phosphoric diester hydrolase activity; protein binding; protein kinase B binding;

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