

Active Recombinant Human PDE6B, GST-tagged

Cat. No. PDE6B-1530H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PDE6B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PDE6B is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE6B is a high-affinity cGMP-specific PDE that shows high expression in the eye. Four mutations in the PDE6B gene lead to a degenerative disease of photoreceptors called retinitis pigmentosa and autosomal dominant congenital stationary night blindness. Subretinal injection of mice with retinal degeneration with PDE6B gene showed significant decrease in photoreceptor cell death. A nonsense mutation in the PDE6B gene is also the cause of Rod-cone dysplasia-1 (rcd1) in Irish setters.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	19nmol/min/mg
Molecular Mass	~124 kDa

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Purity	>80%
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 cyc
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	PDE6B phosphodiesterase 6B, cGMP-specific, rod, beta [Homo sapiens]
Official Symbol	PDE6B
Synonyms	PDE6B; phosphodiesterase 6B, cGMP-specific, rod, beta; PDEB; rod cGMP-specific 3,5-cyclic phosphodiesterase subunit beta; congenital stationary night blindness 3; autosomal dominant; CSNB3; rd1; RP40; GMP-PDE beta; rod cGMP-phosphodiesterase beta-subunit; CSNBAD2;
Gene ID	5158
mRNA Refseq	NM_000283
Protein Refseq	NP_000274
MIM	180072
UniProt ID	P35913
Chromosome	4p16.3

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Location	
Pathway	Hemostasis, organism-specific biosystem; Nitric oxide stimulates guanylate cyclase, organism-specific biosystem; Phototransduction, organism-specific biosystem; Phototransduction, conserved biosystem; Platelet homeostasis, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	3,5-cyclic-GMP phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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