

Recombinant Human PDE6C protein, GST-tagged

Cat. No. PDE6C-444H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDE6C fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PDE6C or phosphodiesterase 6C, cGMP-specific, cone, alpha prime encodes the alpha-prime subunit of cone phosphodiesterase, which is composed of a homodimer of two alpha-prime subunits and 3 smaller proteins of 11, 13, and 15 kDa. PDE6C protein consists of 22 exons spanning approximately 48 kb of genomic DNA. The intron-exon structure of human PDE6C is very similar to that of rod PDE6B. A homologous genetic basis of the murine cpfl1 mutant and human achromatopsia linked to mutations in the PDE6C gene and mutations in PDE6C are associated with cone dystrophy type 4 (COD4).
Form	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~125 kDa
Purity	> 75%
Stability	1 year at -70 centigrade from the date of shipment

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Storage	Store product at –70 centigrade. 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.
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Concentration	0.1 ug/uL
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GENE INFORMATION

Gene Name	PDE6C phosphodiesterase 6C, cGMP-specific, cone, alpha prime [Homo sapiens]
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Official Symbol	PDE6C
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Synonyms	PDE6C; phosphodiesterase 6C, cGMP-specific, cone, alpha prime; cone cGMP-specific 3,5-cyclic phosphodiesterase subunit alpha; PDEA2; cGMP phosphodiesterase 6C; COD4;
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Gene ID	5146
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mRNA Refseq	NM_006204
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Protein Refseq	NP_006195
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MIM	600827
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UniProt ID	P51160
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Chromosome Location	10q24
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Pathway	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Visual signal transduction: Cones, organism-specific biosystem;
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Function

3,5-cyclic-GMP phosphodiesterase activity; cGMP binding; hydrolase activity; metal ion binding; nucleotide binding; phosphoric diester hydrolase activity;

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