

Active Recombinant Human PDE4C, GST-tagged

Cat. No. PDE4C-1528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PDE4C (287-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	287 aa-end
Description	PDE4C is a member of the phosphodiesterase (PDE) family that is cAMP-specific and has homology to the dunce gene of Drosophila. The dunce gene is one of several genes critical for normal learning and memory in the fly. Homozygous mutations in dunce cause defective short-term memory and behavioral defects. PDE4C is assigned to human chromosome 19 by Southern analyses while in situ hybridization localized the PDE4C gene to 19p13.1. PDE4C has been shown to be a substrate for phosphorylation by ERK2 within the C-terminal portion of the PDE4C catalytic unit and this phosphorylation can regulate the activity of PDE4C.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	83 nmol/min/mg
Molecular Mass	~75 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 cycles.
Concentration	0.1µg/µl

GENE INFORMATION

Gene Name	PDE4C phosphodiesterase 4C, cAMP-specific [Homo sapiens]
Official Symbol	PDE4C
Synonyms	PDE4C; phosphodiesterase 4C, cAMP-specific; DPDE1, phosphodiesterase 4C, cAMP specific (dunce (Drosophila) homolog phosphodiesterase E1); cAMP-specific 3,5-cyclic phosphodiesterase 4C; phosphodiesterase E1 dunce homolog (Drosophila); PDE21; phosphodiesterase E1 dunce homolog; phosphodiesterase 4C, cAMP-specific (phosphodiesterase E1 dunce homolog, Drosophila); DPDE1; MGC126222;
Gene ID	5143
mRNA Refseq	NM_000923
Protein Refseq	NP_000914
MIM	600128
UniProt ID	Q08493

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Chromosome Location	19p13.11
Pathway	DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Morphine addiction, organism-specific biosystem; Morphine addiction, conserved biosystem; Opioid Signalling, organism-specific biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; drug binding; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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