Active Recombinant Human PDE1C, GST-tagged

Cat. No. PDE1C-1612H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PDE1C was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
Description	Cyclic nucleotide phosphodiesterases (PDEs) catalyze hydrolysis of the cyclic nucleotides cAMP and cGMP to the corresponding nucleoside 5-prime-monophosphates. Mammalian PDEs have been classified into several families based on their biochemical properties. Members of the PDE1 family, such as PDE1C, are calmodulin (see MIM 114180)-dependent PDEs (CaM-PDEs) that are stimulated by a calcium-calmodulin complex.
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	445 nmol/min/mg
Molecular Mass	~99 kDa
Purity	>90%

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Applications	PDE Assay
Stability	1 yr at -70oC from date of shipment.
Storage	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.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	PDE1C phosphodiesterase 1C, calmodulin-dependent 70kDa [Homo sapiens]
Official Symbol	PDE1C
Synonyms	PDE1C; phosphodiesterase 1C, calmodulin-dependent 70kDa; phosphodiesterase 1C, calmodulin dependent (70kD); calcium/calmodulin-dependent 3,5-cyclic nucleotide phosphodiesterase 1C; Hcam3; hCam-3; cam-PDE 1C; Human 3,5 cyclic nucleotide phosphodiesterase (HSPDE1C1A)
Gene ID	5137
mRNA Refseq	NM_005020
Protein Refseq	NP_005011
MIM	602987
UniProt ID	Q14123

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Chromosome Location	7p14.3
Pathway	Ca-dependent events; Calmodulin induced events; DAP12 interactions
Function	calmodulin binding; calmodulin-dependent cyclic-nucleotide phosphodiesterase activity; metal ion binding

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