

## Active Recombinant Human PDE1C, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human PDE1C was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full Length
<b>Description</b>	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.
<b>Form</b>	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.
<b>Bio-activity</b>	445 nmol/min/mg
<b>Molecular Mass</b>	~99 kDa
<b>Purity</b>	>90%

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

## GENE INFORMATION

<b>Gene Name</b>	PDE1C phosphodiesterase 1C, calmodulin-dependent 70kDa [ Homo sapiens ]
<b>Official Symbol</b>	PDE1C
<b>Synonyms</b>	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)
<b>Gene ID</b>	<a href="#">5137</a>
<b>mRNA Refseq</b>	<a href="#">NM_005020</a>
<b>Protein Refseq</b>	<a href="#">NP_005011</a>
<b>MIM</b>	<a href="#">602987</a>
<b>UniProt ID</b>	<a href="#">Q14123</a>

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

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