

Recombinant Human PDE12, GST-tagged

Cat. No. PDE12-1611H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PDE12 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
Description	PDE12 is 2', 5'-phosphodiesterase 12 protein that belongs to the CCR4/nocturin family. PDE12 cleaves the 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates. Triphosphorylated oligoadenylates, which are referred to as 2-5A, modulates in the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of PDE12 induces reduction of viral replication in Hela cells, thus counteracting the antiviral pathway probably by inhibiting the 2-5A system.
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.
Molecular Mass	~100 kDa
Purity	>90%
Applications	PDE Assay

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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	PDE12 phosphodiesterase 12 [Homo sapiens]
Official Symbol	PDE12
Synonyms	PDE12; phosphodiesterase 12; 2,5-phosphodiesterase 12; 2 PDE; 2 phosphodiesterase; DKFZp667B1218; 2-PDE; 2-phosphodiesterase; 2',5'-phosphodiesterase 12; 2'-phosphodiesterase; mitochondrial deadenylase; NP_808881.3; EC 3.1.13.4
Gene ID	201626
mRNA Refseq	NM_177966
Protein Refseq	NP_808881
UniProt ID	Q6L8Q7
Chromosome Location	3p14.3
Function	metal ion binding; poly(A)-specific ribonuclease activity

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