

Product datasheet for PH317016

PDE12 (NM_177966) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PDE12 MS Standard C13 and N15-labeled recombinant protein (NP_808881)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217016
Predicted MW:	67.2 kDa
Protein Sequence:	>RC217016 representing NM_177966 Red =Cloning site Green =Tags(s)

MWRLPGARAALRVIRTAVEKLSRAEAGSQTAAGAMERAVVRCVPSEPKLSLSFALADGSHKNMQRDQSEP
 LGRVLSRIATNALKGHAKAAAAKSRKSRPNASGGAACSGPGPEPAVFCEPVVKLYYREEAVAEDVLNVD
 AWQDGAVLQIGDVKYKVERNPPAFTELQLPRYIMAGFPVCPKLSLEFGDPASSLFRWYKEAKPGAAEPEV
 GVPSSLSPSSPSSWTETDVEERVYTPSNADIGRLKLHCTPGDQGRFGHSRELESVCVVEAGPGTCTFD
 HRHLYTKKVTEDALIRTVSYNILADTYAQTEFSRTVLYPYCAPYALELDYRQNLIQKELTGYNADVICLQ
 EVDRAVFSDSLPALEAFGLEGVFRIKQHEGLATFYRKSFKSLLSQHDSIFYEALSDPLHKELLEKLVL
 YPSAQEKVLQRSSVLQSVLQSTKDSSKRICVANTHL YWHPKGGYIRLIQMAVALAHIRHVSCDLYPGIP
 VIFCGDFNSTPSTGMVHFVINGSIPEDHEDWASNGEEERCNMSLTHFFKLKSACGEPAYTNYVGGFHGCL
 DYIFIDLNALEVEQVIPLPSHEEVTTHQALPSVSHPSDHIALVCDLKWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_808881
RefSeq Size:	3923
RefSeq ORF:	1827


[View online »](#)

Synonyms: 2'-PDE; 2-PDE

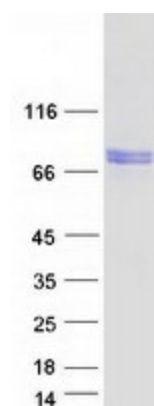
Locus ID: 201626

UniProt ID: [Q6L8Q7](#)

Cytogenetics: 3p14.3

Summary: Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A system. Degrades triphosphorylated 2-5A to produce AMP and ATP (PubMed:26055709). Also cleaves 3',5'-phosphodiester bond of oligoadenylates (PubMed:21666256, PubMed:30389976, PubMed:26055709). Plays a role as a negative regulator of the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of this enzyme increases cellular 2-5A levels and decreases viral replication in cultured small-airway epithelial cells and Hela cells (PubMed:26055709).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified PDE12 protein (Cat# [TP317016]). The protein was produced from HEK293T cells transfected with PDE12 cDNA clone (Cat# [RC217016]) using MegaTran 2.0 (Cat# [TT210002]).