

## Product datasheet for **TP317016L**

### **PDE12 (NM\_177966) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human phosphodiesterase 12 (PDE12), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC217016 representing NM\_177966  
**Red**=Cloning site **Green**=Tags(s)

MWRLPGARAALRVIRTAVEKLSRAEAGSQTAAGAMERAVVRCVPSEPKLSLSFALADGSHKNMQRDQSE  
P  
LGRVLSRIATNALKGHAKAAAAKKSRSRPNASGGAACSGPGPEPAVFCEPVVKLYYREEAVAEDVLNVD  
AWQDGA VLQIGDVKYKVERNPPAFTELQLPRYIMAGFPVCPKLSLEFGDPASSLFRWYKEAKPGAAEPEV  
GVPSSLSPSSPSSSWTETDVEERVYTPSNADIGRLRLHCTPGDGGQRFHGSRELESVCVVEAGPGTCTFD  
HRHLYTKKVTE DALIRTVSYN ILADTYAQTEFSRTVLYPYCAPYALELDYRQNLIQKELTGYNADVCLQ  
EVDRAVFSDSLVPAL EAFGLEGVFRIKQHEGLATFYRKSFSLLSQHDISFYEALES DPLHKELLEKLVL  
YPSAQEKVLQRSSVLQVSVLQSTKDSSKRICVANTHLYWHPKGGYIRLIQMAVALAHIRHVSCDLYPGIP  
VIFCGDFNSTPSTGMYHFVINGSIPEDHEDWASNGEEERCNMSLTHFFKLKSACGEPAYTNYVGGFHGCL  
DYIFIDLNALEVEQVIPLPSHEEVTT HQALPSVSHPSDHIALVCDLKWK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 67.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

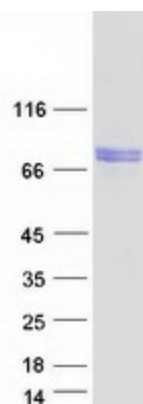
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_808881</u>
<b>Locus ID:</b>	201626
<b>UniProt ID:</b>	<u>Q6L8Q7</u>
<b>RefSeq Size:</b>	3923
<b>Cytogenetics:</b>	3p14.3
<b>RefSeq ORF:</b>	1827
<b>Synonyms:</b>	2'-PDE; 2-PDE
<b>Summary:</b>	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]).