

## Product datasheet for **TP321103M**

### **PDE4C (NM\_001098819) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human phosphodiesterase 4C, cAMP-specific (phosphodiesterase E1 duncce homolog, Drosophila) (PDE4C), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC221103 representing NM_001098819 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MQAPVPHSQRRRESFLYRSDSDYELSPKAMSRNSSVASDLHGEDMIVTPFAQVLAASLRTVRSNVAALARQQ  
CLGAAKQGPVGNPSSSNQLPPAEDTGQKLALETLDLDWCLDQLETQLTRHSVGMASNKFKRILNRELT  
HLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAEEAPQPMSRISGLHGLCHSASLSSATVPRFGVQTDQ  
EEQLAKELEDTNKWGLDVFKVAELSGNRPLTAIIFSIFQERDLLKTFQIPADTLATYLLMLEGHYHANVA  
YHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHDPGVSNQFLINTNSELALMYNDASV  
LENHHLAVGFKLLQAENCDIFQNLQNSAKQRLSLRRMVIDMVLATDMSKHMNLLADLKTMTVETKKVTSLGVL  
LLDNYSDRIQVLQNLVHCADLSNPTKPLPLYRQWTRDRIAEFFQGGDRERESGLDISPMCDKHTASVEKS  
QVGFIDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKI PRSPDLTNPERDGPDRFQFELTLEEAE  
EEDEEEEEEGEETALAKEALELPDTELLSPEAGPDPGDLPLDNQRT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	67.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001092289](#)

**Locus ID:** 5143

**UniProt ID:** [Q08493](#), [Q32MM7](#), [Q7KYS4](#), [Q08493-2](#)

**RefSeq Size:** 5124

**Cytogenetics:** 19p13.11

**RefSeq ORF:** 1818

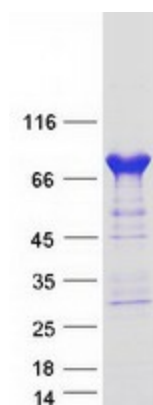
**Synonyms:** DPDE1; PDE21

**Summary:** The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

### Product images:



Coomassie blue staining of purified PDE4C protein (Cat# [TP321103]). The protein was produced from HEK293T cells transfected with PDE4C cDNA clone (Cat# [RC221103]) using MegaTran 2.0 (Cat# [TT210002]).