

## Product datasheet for **TP760557**

### **PDE1C (NM\_005020) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human phosphodiesterase 1C, calmodulin-dependent 70kDa (PDE1C), transcript variant 4, with N-terminal HIS tag, expressed in E.Coli, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding human full-length PDE1C
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	72 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>	50 mM Tris-HCl, pH 8.0, 8 M urea
<b>Bioactivity:</b>	Enzyme activity (PMID: <a href="#">29860631</a> )
<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.
<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>	<a href="#">NP_005011</a>
<b>Locus ID:</b>	5137
<b>UniProt ID:</b>	<a href="#">Q14123</a>
<b>RefSeq Size:</b>	2694
<b>Cytogenetics:</b>	7p14.3
<b>RefSeq ORF:</b>	1902
<b>Synonyms:</b>	cam-PDE 1C; DFNA74; hCam-3; Hcam3



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**Summary:**

This gene encodes an enzyme that belongs to the 3'5'-cyclic nucleotide phosphodiesterase family. Members of this family catalyze hydrolysis of the cyclic nucleotides, cyclic adenosine monophosphate and cyclic guanosine monophosphate, to the corresponding nucleoside 5'-monophosphates. The enzyme encoded by this gene regulates proliferation and migration of vascular smooth muscle cells, and neointimal hyperplasia. This enzyme also plays a role in pathological vascular remodeling by regulating the stability of growth factor receptors, such as PDGF-receptor-beta. [provided by RefSeq, Jul 2016]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Calcium signaling pathway, Olfactory transduction, Progesterone-mediated oocyte maturation, Purine metabolism

**Product images:**