

## Product datasheet for **TP306588L**

### **PDE1B (NM\_000924) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human phosphodiesterase 1B, calmodulin-dependent (PDE1B), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC206588 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MELSPRSPPEMLEESDCPSPLELKSAPSKMMWIKLRSLRYMVKQLENGEINIEELKKNLEYTASLLEAV  
YIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTQQARAKGRRAEEKPKFRSIVHAVQAGIFVERMFR  
RTYTSVGPTYSTAVLNCLKNLDLWCFDVFSLNQAADDHALRTIVFELLTRHNLSIRFKIPTVFLMSFLDA  
LETGYGKYKNPYHNQIHAADVTQTVHCFLLRGTMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFHIQTKS  
ECAIVYNDRSVLENHHISSVFRLMQDDEMNFILNLTDEKDFVELRALVIEMVLATDMSCHFQQVKMTKAL  
QQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTSTLVAQS  
QIGFIDFIVEPTFSVLTDAEKSVQPLADEDSKSNQPSFQWRQPSLDVEVGDVDPNPVVSFRSTWVKRIQ  
ENKQKWKERAASGITNQMSIDELSPCEEEAPPSPAEDEHNQNGNLD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	61.2 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.
<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.



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RefSeq: [NP\\_000915](#)

Locus ID: 5153

UniProt ID: [Q01064](#), [A0A024RB59](#)

RefSeq Size: 3463

Cytogenetics: 12q13.2

RefSeq ORF: 1608

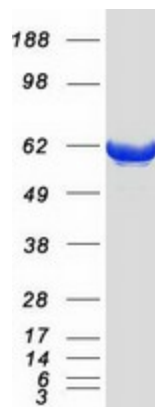
Synonyms: HEL-S-79p; PDE1B1; PDES1B

**Summary:** The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of 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:** Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism

### Product images:



Coomassie blue staining of purified PDE1B protein (Cat# [TP306588]). The protein was produced from HEK293T cells transfected with PDE1B cDNA clone (Cat# [RC206588]) using MegaTran 2.0 (Cat# [TT210002]).