

Recombinant Full Length Human PDE1B Protein, C-Flag-tagged

Cat. No. PDE1B-704HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDE1B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	61.2 kDa
AA Sequence	MELSPRSPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRYMVKQLENGEINIEELK KNLEYTASLLEAV YIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTQQARAKGR RAEEKPKFRSIVHAVQAGIFVERMFR RTYTSVGPTYSTAVLNCLKNLDLWCDFVFSL NQAADDHALRTIVFELLTRHNLISRFKIPTVFLMSFLDA LETGYGKYKNPYHNQIHAA DVTQTVHCFLLRTGMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFHIQTKS ECAIVYND

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RSVLENHHISSVFRLMQDDEMNI FINLTKDEFVELRALVIEMVLATDMSCHFQQVKTM
 KTAL QQLERIDKPKALSLLLHAADISHPTKQWL VHSRWTKALMEEFFRQGDKEAEL
 GLPFSPLCDRTSTLVAQS QIGFIDFIVEPTFSVLTDVAEKSVQPLADED SKSKNQPSF
 QWRQPSLDVEVGDPNPDVVSFRSTWVKRIQ
 ENKQKWKERAASGITNQMSIDELSPCEEEAPPSPAEDHNQNGNLDTRTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism
Full Length	Full L.

GENE INFORMATION

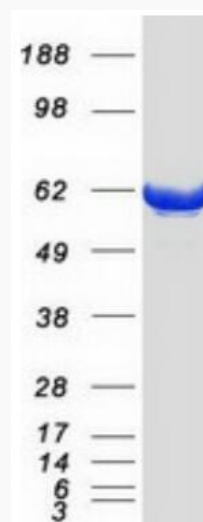
Gene Name	PDE1B phosphodiesterase 1B [Homo sapiens (human)]
Official Symbol	PDE1B

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Synonyms	PDE1B1; PDES1B; HEL-S-79p
Gene ID	5153
mRNA Refseq	NM_000924.4
Protein Refseq	NP_000915.1
MIM	171891
UniProt ID	Q01064



Coomassie blue staining of purified PDE1B protein.