

Recombinant Human PDE1B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDE1B-2292H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDE1B MS Standard C13 and N15-labeled recombinant protein (NP_000915) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	61.4 kDa
AA Sequence	MELSPRSPPEMLEESDCPSPLELKSA PSKKMWIKLRSLRLRYMVKQLENGEINIEELK KNLEYTASLLEAVYIDETRQILDTDELQELRSDAVPSEVRDWLASTFTQQARAKGR RAEEKPKFRSIVHAVQAGIFVERMFRRTYTSVGPTYSTAVLNCLKNLDLWCFDVFSL NQAADDHALRTIVFELLTRHNLISRFKIPTVFLMSFLDALETGYGKYKNPYHNQIHAAD VTQTVHCFLLRGTGMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFHIQTKSECAIVYNDRS VLENHHISSVFRLMQDDEMNIFINLTKDEFVELRALVIEMVLATDMSCHFQQVKTMTKT

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ALQQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEEFFRQGDKEAELGLP
 FSPLCDRTSTLVAQSQIGFIDFIVEPTFSVLTDAEKSQPLADEDSKSKNQPSFQWR
 QPSLDVEVGDPNPDVVSFRSTWVKRIQENKQKWKERAASGITNQMSIDELSPCEEE
 APPSPAEDENQNGNLDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol PDE1B

Synonyms PDE1B; phosphodiesterase 1B, calmodulin-dependent; PDES1B; calcium/calmodulin-dependent 3,5-cyclic nucleotide phosphodiesterase 1B; cam-PDE 1B; 63 kDa Cam-PDE; calmodulin-stimulated phosphodiesterase PDE1B1; calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase; presumed 63kDa form of the type 1 cyclic nucleotide phosphodiesterase family known as PDE1B; PDE1B1;

Gene ID 5153

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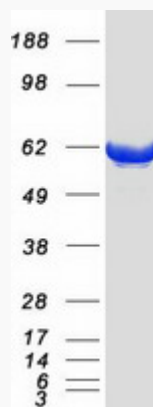
mRNA Refseq [NM_000924](#)

Protein Refseq [NP_000915](#)

MIM [171891](#)

UniProt ID [Q01064](#)

SDS-PAGE



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