

Recombinant Human PDE1B

Cat. No. PDE1B-29995TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDE1B,, with N terminal enzyme tag. MW= 87 kDa. Expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
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	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 20mM Glutathione, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE1 subfamily.
Full Length	Full L.

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GENE INFORMATION

Gene Name	PDE1B phosphodiesterase 1B, calmodulin-dependent [Homo sapiens]
Official Symbol	PDE1B
Synonyms	PDE1B; phosphodiesterase 1B, calmodulin-dependent; PDES1B; calcium/calmodulin-dependent 3,5-cyclic nucleotide phosphodiesterase 1B;
Gene ID	5153
mRNA Refseq	NM_000924
Protein Refseq	NP_000915
MIM	171891
Uniprot ID	Q01064
Chromosome Location	12q13
Pathway	Ca-dependent events, organism-specific biosystem; CaM pathway, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Calmodulin induced events, organism-specific biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; calcium- and calmodulin-regulated 3,5-cyclic-GMP phosphodiesterase activity; calmodulin binding; calmodulin-dependent cyclic-nucleotide phosphodiesterase activity; hydrolase activity;

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