

## PDE1B Protein, Human (sf9, His-GST)

Cat. No.:	HY-P75960
Synonyms:	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B; Cam-PDE 1B; PDE1B1; PDES1B
Species:	Human
Source:	Sf9 insect cells
Accession:	Q01064 (M1-D536)
Gene ID:	5153
Molecular Weight:	Approximately 75 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	PDE1B protein functions as a cyclic nucleotide phosphodiesterase with dual specificity for the second messengers cAMP and cGMP, both crucial regulators in various physiological processes. This enzyme exhibits a preference for cGMP as a substrate, contributing to its role in modulating intracellular signaling mediated by cyclic nucleotides. The dual specificity of PDE1B underscores its importance in fine-tuning cellular responses to cyclic nucleotide signaling, thereby playing a regulatory role in diverse physiological pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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