

Datasheet for ABIN7317495

PDE1B Protein (GST tag,His tag)



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	PDE1B
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE1B protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human PDE1B Protein (His & GST Tag)
Sequence:	Met 1-Asp 536
Characteristics:	A DNA sequence encoding the human PDE1B long isoform (Q01064-1) (Met 1-Asp 536) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PDE1B
Alternative Name:	PDE1B (PDE1B Products)
Background:	Background: Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B, also known as Cam-PDE 1B and PDE1B, is a cytoplasm protein which belongs to the cyclic nucleotide phosphodiesterase family and PDE1 subfamily. Phosphodiesterase-10A (PDE10A),

Target Details

Phosphodiesterase-1B (PDE1B), Phosphodiesterase-4B (PDE4B), and Phosphodiesterase-4A (PDE4A) are important regulators of signal transduction in striatum due to their catalysis of cyclic AMP and cyclic GMP. PDE1B is highly expressed in the striatum. It binds two divalent metal cations per subunit. Site one of PDE1B may preferentially bind zinc ions, while site two of PDE1B has a preference for magnesium and/or manganese ions. PDE1B is a cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. It has a preference for cGMP as a substrate.

Synonym: PDE1B1;PDES1B

Molecular Weight: 89.2 kDa

Pathways: [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.