

Recombinant Human PDE1B cell lysate

Cat. No. PDE1B-627HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PDE1B derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

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; 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
mRNA Refseq	NM_000924
Protein Refseq	NP_000915
MIM	171891

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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; Cam-PDE 1 activation, organism-specific biosystem; DAG and IP3 signaling, 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; metal ion binding;