Recombinant Human PPP3R1 Protein (His Tag)

Catalog Number: PKSH030576



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Calcineurin Subunit B Type 1;Protein Phosphatase 2B Regulatory Subunit 1;Protein

Phosphatase 3 Regulatory Subunit B Alpha Osoform 1;PPP3R1;CNA2;CNB

Species Human

Expression Host Baculovirus-Insect Cells

SequenceGly2-Val170AccessionP63098Calculated Molecular Weight21.4 kDaObserved molecular weight20 kDaTagN-His

Bioactivity Using the Octet RED System, the affinity constant (Kd) of human PPP3R1-His

bound to Human PPIA-His was 6 nM.

Properties

Purity > 87 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 10% glycerol, 2mM

DTT

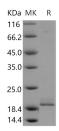
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed m

Reconstitution Please refer to the printed manual for detailed information.

Data



> 87 % as determined by reducing SDS-PAGE.

Background

PPP3R1 belongs to the calcineurin regulatory subunit family. It is a regulatory subunit of calcineurin. Calcineurin is composed of two subunits: calcineurin A (CnA) and calcineurin B (CnB). Dephosphorylation of the nuclear factor of activated T-cells (NF-AT) by Calcineurin is essential for NF-AT activation; nuclear translocation; and early gene expression in T-cells. PPP3R1 is a Ser/Thr-specific calcium and calmodulin-dependent protein phosphatase which takes a

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vital part in the T cell activation pathway. PPP3R1 is involved in protein dephosphorylation; NFAT protein import into nucleus (ortholog) and epithelial to mesenchymal transition (ortholog). It participates in calcineurin signaling pathway; mitogen activated protein kinase signaling pathway. PPP3R1 interacts with (+)-pilocarpine; 2;4-dinitrotoluene and ammonium chloride. It contains four EF-hand domains and four functional calcium-binding sites. PPP3R1 play an improtant role in the T cell activation pathway.

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