Recombinant Human PP2A-Cα/PPP2CA Protein (His Tag)

Catalog Number: PDEH101010

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

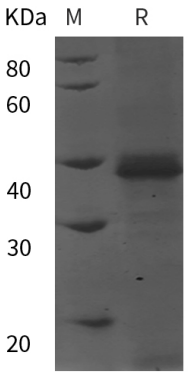
Description

Species	Human
Source	E.coli-derived Human PP2A-Cα protein Met1-Leu309, with an N-terminal His & C-terminal His
Calculated MW	39.3 kDa
Observed MW	40 kDa
Accession	P67775
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg 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 a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human PP2A-Cα/PPP2CA proteins, 2 μg/lane of Recombinant Human PP2A-Cα/PPP2CA proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 40 kDa.

Background

Protein Phosphatase 2A (PP2A) is an enzyme that removes phosphates covalently attached to serine and threonine residues in proteins. It contains three subunits, a catalytic subunit C (PP2Ac), an assembly/structural subunit A (PP2Aa), and a regulatory subunit B (PP2Ab). PP2A is a ubiquitous enzyme that plays a role in regulating many cellular activities varying from ion transport in erythrocytes to suppressing tumor growth. Binding of the SV40 small T antigen to the PP2A phosphatase complex is known to cause oncogenic transformation.

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