

Recombinant Human PPM1A protein (His tag)

Catalog No. PKSH033315

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

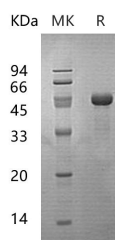
Description

Synonyms	Protein Phosphatase 1A, Protein Phosphatase 2C Isoform Alpha, PP2C-Alpha, Protein Phosphatase 1A, PPM1A, PPPM1A, PP2C-ALPHA, PP2CA, PP2Calpha
Species	Human
Expression Host	E.coli
Sequence	Gly2-Trp382
Accession	P35813
Calculated Molecular Weight	43.5 kDa
Observed molecular weight	45 kDa
Tag	N-His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
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 PBS, pH 7.4. 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 manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Protein Phosphatase 1A (PPM1A) is a member of the PP2C family of Ser/Thr protein phosphatases which are known to

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be negative regulators of cell stress response pathways. PPM1A has a broad specificity. PPM1A negatively regulates the activities of MAP kinases and MAP kinase kinases. Also; it negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3; resulting in their dissociation from SMAD4; nuclear export of the SMADs and termination of the TGF-beta-mediated signaling. In addition; PPM1A can dephosphorylate cyclin-dependent kinases; and thus may be involved in cell cycle control.