Recombinant Human Rock-2 protein (His tag)

Catalog No. PDEH100162

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

Description	
Synonyms	Rho kinase 2;Rho-associated;Rho-associated protein kinase 2;ROCK 2;Rock 1];Rock2;ROCK2;Rock2m;ROK alpha;ROKalpha
Species	Human
Expression Host	E.coli
Sequence	Leu 904-Gly 1140
Accession	O75116
Calculated Molecular Weight	26.0 kDa
Observed molecular weight	35 kDa
Tag	N-His
Bioactivity	Not validated for activity
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	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



> 95 % as determined by reducing SDS-PAGE.

Background

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ROCK2/II (Rho-associated protein kinase 2; also Rho-kinase alpha) is a member of the AGC serine/threonine protein kinase family. ROCK2 is a downstream target of activated RhoA. Its activation results in myosin phosphorylation with subsequent muscle contraction. Human ROCK2 is 1388 amino acids (aa) in length, and appears to be present as a dimer. It contains a protein kinase domain (aa 92?354), a coiled-coil region (aa 429?1131) and a zinc-finger region (aa 1260?1315). Two isoforms show an alternate start site at M686, and a three aa substitution for the N-terminal 444 amino acids.

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