

Recombinant Human Rock-2 protein (His tag)

Catalog Number:PDEH100162



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

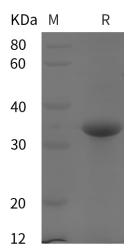
Description

Synonyms	Rho kinase 2;Rho-associated;Rho-associated protein kinase 2;ROCK 2;Rock II;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

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

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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