

# Recombinant Human Rock-2 protein (His tag)

Catalog Number:PDEH100162



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

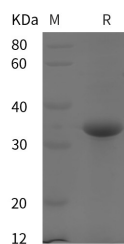
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Rho kinase 2;Rho-associated;Rho-associated protein kinase 2;ROCK 2;Rock II;Rock2;ROCK2;Rock2m;ROK alpha;ROKalpha |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Leu 904-Gly 1140   |
| <b>Accession</b>                   | O75116   |
| <b>Calculated Molecular Weight</b> | 26.0 kDa   |
| <b>Observed molecular weight</b>   | 35 kDa   |
| <b>Tag</b>                         | N-His  |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | Please contact us for more information.   |
| <b>Storage</b>        | 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. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.          |
| <b>Reconstitution</b> | 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.

## For Research Use Only

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