

Recombinant Human Rho-associated protein kinase 1/ROCK1 Protein

Catalog No.: RP03353LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	6093	Q13464

Tags

N-His

Synonyms

ROCK1; p160ROCK; ROCK-I; Renal carcinoma antigen NY-REN-35; Rho-associated protein kinase 1

Product Information

Source	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE and HPLC

Calculated MW	Observed MW
50.0 kDa	40-50 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

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Background

ROCK1 is a protein serine/threonine kinase also known as rho-associated, coiled-coil-containing protein kinase 1, and is a major downstream effector of the small GTPase RhoA and is a regulator of the actomyosin cytoskeleton which promotes contractile force generation. ROCK1 has a ubiquitous tissue distribution, but subcellularly it is thought to colocalize with the centrosomes. In humans, the main function of ROCK1 is actomyosin contractility. In addition, ROCK kinases influence more distal cellular processes including gene transcription, proliferation, differentiation, apoptosis and oncogenic transformation.

Basic Information

Description

Recombinant Human Rho-associated protein kinase 1/ROCK1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser6-Arg415) of Human ROCK1 (Accession #Q13464) fused with a N-His tag.

Bio-Activity

The activity of ROCK1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

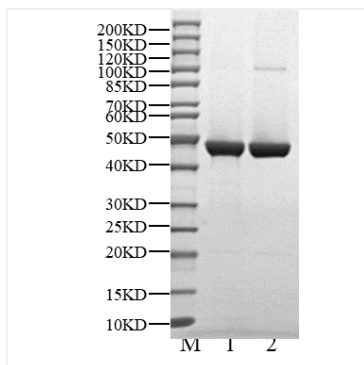
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

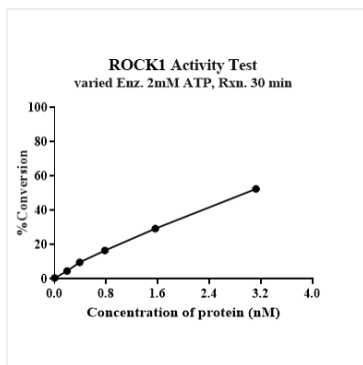
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human Rho-associated protein kinase 1/ROCK1 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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