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Recombinant Human CRIK/CIT/STK21 Protein

Catalog No.: RP03326LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	11113	O14578

Tags
No tag

Synonyms
CIT; CRIK; KIAA0949; STK21; Serine/threonine-protein kinase 21; Citron Rho-interacting kinase

Product Information

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

Calculated MW	Observed MW
56.5 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, 150 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

Citron Rho-interacting kinase (CRIK) is encoded by the CIT gene. Citron kinase, which resembles the ROCK family of kinases and by comparison to it, is therefore a multiple domain protein containing an N-terminal kinase domain, an internal coiled-coil (CC) domain with Rho/Rac interacting site, and a C-terminal region consisting of a Zn finger, a pleckstrin homology (PH) domain, a Citron homology domain (CNH), a putative SH3 binding domain, and a PDZ-targeting motif. Citron kinase is believed to act in cytokinesis and is important to keep proper structure of the midbody which holds the intercellular bridge microtubules between the two daughter cells and is thus required for successful transition from constriction to abscission.

Basic Information

Description
Recombinant Human CRIK/CIT/STK21 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Gln499) of Human CIT (Accession #O14578) fused with No tag.

Bio-Activity
The activity of CIT is based on the ADP-Glo technology, and the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

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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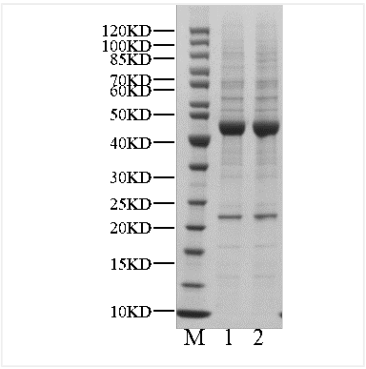
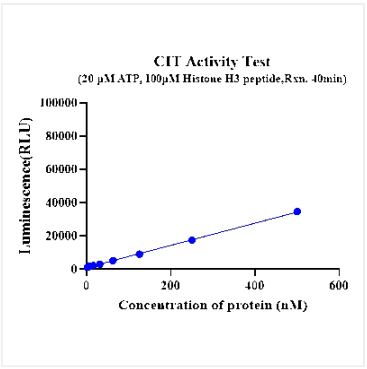
Validation Data



Recombinant Human CRIK/CIT/STK21 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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