Recombinant Human MARK4 Kinase

Catalog No.: RP03435LQ

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Sequence Information

Species
Human

Gene ID
57787

Swiss Prot
Q96L34

Tags
N-His

Synonyms
MARK4; KIAA1860; MARKL1; MAP /microtubule affinity-regulating kinase 4

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
39.5 kDa

Observed MW
30-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

MAP/microtubule affinity-regulating kinase 4 is an enzyme that in humans is encoded by the MARK4 gene. MARK4 belongs to the family of serine /threonine kinases that phosphorylate microtubule-associated proteins (MAP) causing their detachment from microtubules. Detachment thereby increases microtubule dynamics and facilitates a number of cell activities including cell division, cell cycle control, cell polarity determination, and cell shape alterations. There are four members of the MARK protein family, MARK1-4, which are highly conserved. MARK4 kinase has been shown to be involved in microtubule organization in neuronal cells. Levels of MARK4 are elevated in Alzheimer's disease and may contribute to the pathological phosphorylation of tau protein in this disease.

Basic Information

Description
Recombinant Human MARK4 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Asn44-Lys370) of Human MARK4 (Accession #Q96L34) fused with a N-His tag.

Activity
The activity of MARK4 is based on 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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

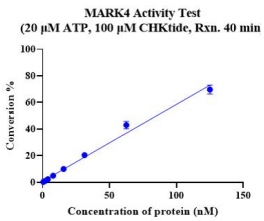
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

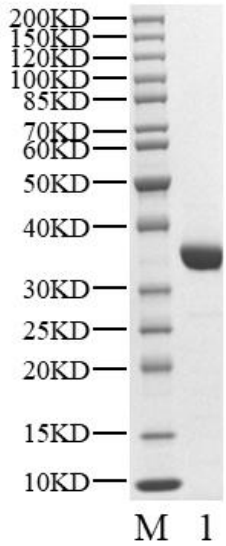
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of MARK4 is based on 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.



Recombinant Human MARK4 Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.