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Recombinant Human MARK4 Kinase

Catalog No.: RP03435LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	57787	Q96L34

Tags
N-His

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

Product Information

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

Calculated MW	Observed MW
39.5 kDa	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.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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.

Bio-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
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

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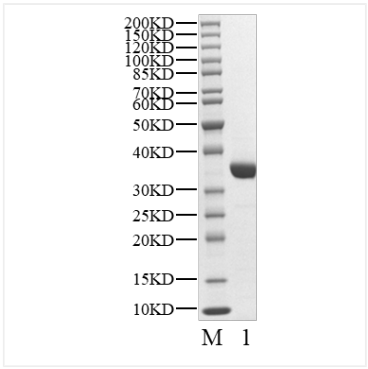
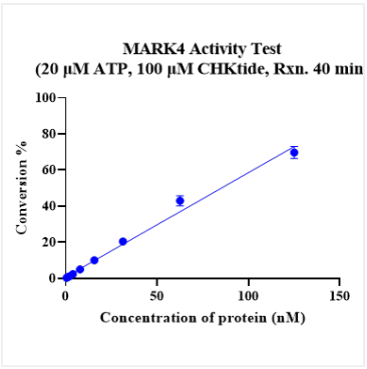
Validation Data



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



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