

Recombinant Human MARK4 Protein (N44-K370), His tagged

Cat. No. MARK4-1199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-MARK4(N44-K370) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	N44-K370
Description	Serine/threonine-protein kinase. Phosphorylates the microtubule-associated protein MAPT/TAU. Also phosphorylates the microtubule-associated proteins MAP2 and MAP4. Involved in regulation of the microtubule network, causing reorganization of microtubules into bundles. Required for the initiation of axoneme extension during cilium assembly. Regulates the centrosomal location of ODF2 and phosphorylates ODF2 in vitro. Plays a role in cell cycle progression, specifically in the G1/S checkpoint. Reduces neuronal cell survival. Plays a role in energy homeostasis by regulating satiety and metabolic rate. Promotes adipogenesis by activating JNK1 and inhibiting the p38MAPK pathway, and triggers apoptosis by activating the JNK1 pathway. Phosphorylates mTORC1 complex member RPTOR and acts as a negative regulator of the mTORC1 complex, probably due to disruption of the interaction between phosphorylated RPTOR and the RRAGA/RRAGC heterodimer which is required for mTORC1 activation.
Form	Liquid
Endotoxin	< 0.01 EU per

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	µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MARK4 MAP/microtubule affinity-regulating kinase 4 [Homo sapiens (human)]
Official Symbol	MARK4
Synonyms	MARK4; MAP/microtubule affinity-regulating kinase 4; MAP/microtubule affinity regulating kinase like 1, MARKL1; FLJ90097; KIAA1860; Nbla00650; MARK4 serine/threonine protein kinase; MAP/microtubule affinity-regulating kinase like 1; MARK4L; MARK4S; MARKL1; MARKL1L; FLJ12177;
Gene ID	57787
mRNA Refseq	NM_001199867
Protein Refseq	NP_001186796

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MIM	606495
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UniProt ID	Q96L34
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