

Recombinant Human MARK1 Protein (N45-L795), His tagged

Cat. No. MARK1-1197H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-MARK1(N45-L795 end) (ΔS383-S681) (K761S, R764S) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	N45-L795
Description	Serine/threonine-protein kinase. Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU. Involved in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3).
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%

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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	MARK1 MAP/microtubule affinity-regulating kinase 1 [Homo sapiens (human)]
Official Symbol	MARK1
Synonyms	MARK1; MAP/microtubule affinity-regulating kinase 1; serine/threonine-protein kinase MARK1; MARK; PAR1 homolog c; Par1c; Par-1c; KIAA1477; MGC126512; MGC126513;
Gene ID	4139
mRNA Refseq	NM_018650
Protein Refseq	NP_061120
MIM	606511
UniProt ID	Q9P0L2

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