

Active Recombinant Human MARK1, GST-tagged

Cat. No. MARK1-1427H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MARK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	MARK1 is a member of the MARK family and is a serine/threonine-protein kinase that plays a key role in signal transduction. Due to its protein serine/threonine kinase activity, MARK1 is known to mediate phosphorylation of key proteins involved in signal transduction and cell communication. MARK1 phosphorylates microtubule-associated proteins and trigger microtubule disruption. Gene mutation studies performed in mice revealed that after targeted disruption of the MARK1 gene, the mice lacked the ability to drink, and displayed hind leg motor dysfunction.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	470 nmol/min/mg
Molecular Mass	~125 kDa
Purity	>70%

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Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	MARK1 MAP/microtubule affinity-regulating kinase 1 [Homo sapiens]
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
Chromosome Location	1q41
Function	ATP binding; lipid binding; magnesium ion binding; nucleotide binding; phosphatidic

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acid binding; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylserine binding; protein serine/threonine kinase activity; tau-protein kinase activity;

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