

Recombinant Human MAP/Microtubule Affinity-Regulating Kinase 3, GST-His-tagged

Cat. No. MARK3-5450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length MARK3 (amino acids M1-L713) N-terminally fused to GST-His6-Thrombincleavage site.
Species	Human
Source	Sf9 Cells
ProteinLength	1-713 a.a.
Description	MARK3 encoded bythis gene is activated by phosphorylation and in turn is involved in thephosphorylation of tau proteins MAP2 and MAP4. Several transcript variantsencoding different isoforms have been found for this gene.
Form	Liquid in 50 mMHEPES, pH 7.5 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione + 20%glycerol
Molecular Weight	109.4 kDa
Concentration	0.082 mg/ml
Purity	Affinity purifiedusing GSH-agarose
Specific Activity	18 pmol/g x min. Assaybuffer: 60 mM HEPES-NaOH, pH 7.5 + 3 mM MgCl ₂ + 3 mM MnCl ₂ + 3 μMNa-orthovanadate + 1.2 mM DTT + 2.5 μg/50 μlPEG20.000 + ATP

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(variable) +0.25 μ g/50 μ CHKtide substrate + 200 ng/50 μ MARK3.

Storage Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

Official Symbol MARK3

Full Length Full L.

GENE INFORMATION

Gene Name MARK3 MAP/microtubule affinity-regulating kinase 3 [Homo sapiens]

Synonyms MARK3; MAP/microtubule affinity-regulating kinase 3; KP78; CTAK1; PAR1A; Par-1a; EMK-2; C-TAK1; OTTHUMP00000246863; OTTHUMP00000246864; OTTHUMP00000246865; OTTHUMP00000246866; OTTHUMP00000246867; OTTHUMP00000246868; ELKL motif kinase2; protein kinase STK10; ser/Thr protein kinase PAR-1; cdc25C-associated protein kinase 1; rine/threonine-protein kinase p78; EC 2.7.11.1

Gene ID 4140

mRNA Refseq NM_002376

Protein Refseq NP_002367

MIM 602678

UniProt ID P27448

Chromosome Location 14q32.3

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Function

ATP binding;nucleotide binding; protein binding; protein serine/threonine
kinaseactivity; transferase activity, transferring phosphorus-containing groups

**PDB rendering
basedon 1ul7.**

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