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/µg x min. Assaybuffer: 60 mM HEPES-NaOH, pH 7.5 + 3 mM MgCl2 + 3 mM MnCl2 + 3 µMNa-orthovanadate + 1.2 mM DTT + 2.5 µg/50 µlPEG20.000 + ATP

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	(variable) +0.25 g/50 µCHKtide substrate + 200 ng/50 µMARK3.
Storage	Store in workingaliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	MARK3
Full Length	Full L.

GENE INFORMATION

Gene Name	MARK3 MAP/microtubuleaffinity-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-associatedprotein 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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