Recombinant Human MARK3/CTAK1/EMK-2 Protein (His & GST Tag)(Active)

Catalog No. PKSH030341

Note: Centrifuge before opening to ensure complete recovery of vial contents.

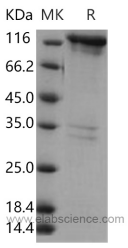
Description

Synonyms	CTAK1;KP78;Par-1a;PAR1A
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met1-Leu729
Accession	AAH24773.1
Calculated Molecular Weight	109.3 kDa
Observed molecular weight	120 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 7 nmol/min/mg using synthetic CHKtide peptide (KKKVSRSGLYRSPSMPENLNRPR) as substrate.

Properties

Purity	> 88 % as determined by reducing SDS-PAGE.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at< -20°C.
Formulation	Supplied as sterile 20mM Tris, 500mM NaCl, 0.25mM DTT, 0.1mM PMSF, 0.1mM EDTA, pH 7.4, 10% gly
Reconstitution	Not Applicable

Data



Background

MAP / microtubule affinity-regulating kinase 3, also known as C-TAK1, cTAK1, Cdc25C-associated protein kinase 1, ELKL motif kinase 2, Protein kinase STK10, Ser/Thr protein kinase PAR-1, Serine/threonine-protein kinase p78, MARK3, CTAK1 and EMK2, is a ubiquitous expressed protein which belongs to the protein kinase superfamily, CAMK Ser / Thr protein kinase family and MARK subfamily. MARK3 contains one KA1 (kinase-associated) domain,

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one protein kinase domain and one UBA domain. The Par-1 / MARK protein kinases play a pivotal role in establishing cellular polarity. This family of kinases contains a unique domain architecture, in which a ubiquitin-associated (UBA) domain is located C-terminal to the kinase domain. MARKs / PAR-1 are common regulators of cell polarity that are conserved from nematode to human. All of these kinases have a highly conserved C-terminal domain, which is termed the kinase-associated domain 1 (KA1).

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