



Recombinant Protein Technical Manual
Recombinant Human MARK3/CTAK1/EMK-2 Protein
(His & GST Tag)(Active)
RPES0961

Product Data:

Product SKU: RPES0961

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: AAH24773.1

Protein Information:

Molecular Mass: 109.3 kDa

AP Molecular Mass: 120 kDa

Tag: N-His & GST

Bio-activity: The specific activity was determined to be 7 nmol/min/mg using synthetic CHKtide peptide (KKKVSRSGLYRSPSPENLNRPR) as substrate.

Purity: > 88 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

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: Please refer to the printed manual for detailed information.

Application:

Synonyms: CTAK1;KP78;Para;PAR1A

Immunogen Information:

Sequence: Met 1-Leu 729

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, 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, one protein kinase domain and one UBA domain. The Par / 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 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).