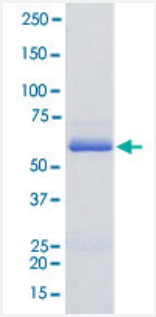
Bioactive

MINK1 (Human) Recombinant Protein

Catalog # P5730 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human MINK1 (NP_056531.1, 1 a.a. - 314 a.a.) partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	63
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography and anion exchange chromatography
Purity	94 % by SDS-PAGE/CBB staining.

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000. Substrate : Modified Erktide. ATP: 100 μM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — MINK1

Entrez GeneID	50488
Protein Accession#	NP_056531.1
Gene Name	MINK1
Gene Alias	B55, MAP4K6, MGC21111, MINK, YSK2, ZC3, hMINK, hMINKbeta
Gene Description	misshapen-like kinase 1 (zebrafish)
Omim ID	609426
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a serine/threonine kinase belonging to the germinal center kinase (GCK) family. The protein is structurally similar to the kinases that are related to NIK and may belong to a distinct subfamily of NIK-related kinases within the GCK family. Studies of the mouse homolog indicate an up-regulation of expression in the course of postnatal mouse cerebral development and activation of the cJun N-terminal kinase (JNK) and the p38 pathways. Alternative splicing occurs at this locus and four transcript variants encoding distinct isoforms have been identified. [provided by RefSeq
Other Designations	GCK family kinase MINK|misshapen/NIK-related kinase|serine/threonine protein kinase

Disease

- Atrial Fibrillation
- Genetic Predisposition to Disease
- Long QT syndrome