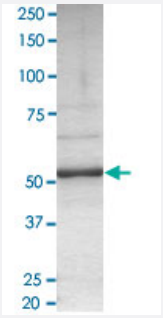
Bioactive Full-Length

MAPK10 (Human) Recombinant Protein

Catalog # P4712 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human MAPK10 (NM_138980, 1 a.a. - 426 a.a.) full-length recombinant protein expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	48.06
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	Immobilized metal affinity chromatography
Concentration	0.211 ug/uL

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Activity	118 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 20% 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 — MAPK10

Entrez GeneID	5602
Protein Accession#	NM_138980
Gene Name	MAPK10
Gene Alias	FLJ12099, FLJ33785, JNK3, JNK3A, MGC50974, PRKM10, p493F12, p54bSAPK
Gene Description	mitogen-activated protein kinase 10
Omim ID	602897 606369
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular pro cesses such as proliferation, differentiation, transcription regulation and development. This protei n is a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways during neuronal a poptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact w ith, and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-depe ndent kianse 5 can phosphorylate, and inhibit the activity of this kinase, which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct isof orms have been reported. [provided by RefSeq

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Other Designations	JNK3 alpha protein kinase|MAP kinase|OTTHUMP00000161180|OTTHUMP00000161182|OTTHUMP00000161183|c-Jun N-terminal kinase 3|c-Jun kinase 3|stress activated protein kinase JNK3|stress activated protein kinase beta

Pathway

- Adipocytokine signaling pathway
- Colorectal cancer
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Focal adhesion
- GnRH signaling pathway
- Insulin signaling pathway
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Wnt signaling pathway

Disease

- HIV Infections

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