

Bioactive

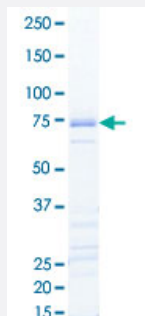
Full-Length

MAP2K7 (K149M) (Human) Recombinant Protein

Catalog # P5685

Size 50 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description	Human MAP2K7 (NP_660186.1, 1 a.a. - 419 a.a.) K149M mutant full-length recombinant protein with GST tag expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	74
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Glutathione sepharose chromatography
Purity	55 % by SDS-PAGE/CBB staining

Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione- coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit Ig G. Substrate: JNK1. ATP: 10 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 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 — MAP2K7

Entrez GeneID	5609
Protein Accession#	NP_660186.1
Gene Name	MAP2K7
Gene Alias	Jnkk2, MAPKK7, MKK7, PRKMK7
Gene Description	mitogen-activated protein kinase kinase 7
Omim ID	603014
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found, but only one transcript variant has been supported and defined. [provided by RefSeq]

Other Designations

JNK kinase 2|JNK-activating kinase 2|MAP kinase kinase 7|OTTHUMP00000174397|c-Jun N-terminal kinase kinase 2|dual specificity mitogen-activated protein kinase kinase 7

Pathway

- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)