

Recombinant Human Dual specificity mitogen-activated protein kinase kinase 6(MAP2K6)

Catalog No: #AP70525

Package Size: #AP70525-1 20ug #AP70525-2 100ug #AP70525-3 1mg

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Description

Product Name	Recombinant Human Dual specificity mitogen-activated protein kinase kinase 6(MAP2K6)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-334aaSequence Info:Full Length
Other Names	MAPK,ERK kinase 6 ;MEK 6Stress-activated protein kinase kinase 3 ;SAPK kinase 3 ;SAPKK-3 ;SAPKK3
Accession No.	P52564
Calculated MW	53.5 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSQSKGKKRNPGLKIPKEAFEQPQTSSPPRLDSKACISIGNQNFVKKADDLEPIMELGRGAYGVVEKMRHV PSGQIMAVKRIRATVNSQEQRLLMDLDSMRTVDCPFTVTFTYGFALFREGDVWICMELMDTSLDKFYKQVIDK GQTIPEDILGKIAVSIVKALEHLHSLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAKTIDAGCKPYMAP ERINPELNQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPTFQQLKQVVEEPPQLPADKFSAEFVDFTSQCLK KNSKERPTYPELMQHPFFTLHESKGTDVASFVKLILGD
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. With MAP3K3,MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3,MKK3 and MAP2K6,MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6,MKK6 is the major MAPK11 activator in response to TNF. MAP2K6,MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6,MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction; and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF-kappa-B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of the p38 MAPK pathway. MAP2K6,MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases

References

Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuehmer T., Bennett K.L.,

Note: This product is for in vitro research use only and is not intended for use in humans or animals.