

Recombinant Mouse MP2K3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51139

Size: 10ug, 100ug

Protein Name: Dual specificity mitogen-activated protein kinase kinase 3 (MAP kinase kinase 3) (MAPKK 3) (EC 2.7.12.2) (MAPK/ERK kinase 3) (MEK 3)

Synonym: Map2k3, Mkk3, Prkmk3

UniProt ID: O09110

UniProt Link: www.uniprot.org/uniprotkb/O09110/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 347 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MESPAASPPASLPQTKGKSKRKKDLRISCVSKPPVSNPTPPRNLDSTRFITIGDRNFEVEADDLVTIS
ELGRGAYGVVEKVRHAQSGTIMAVKRIRATVNTQEQKRLMDLDINMRTVDCFYTVTFYGALFREGD
VWICMELMDTSLDKFYRKVLEKNMKIPEDILGEIAVSIVRALEHLHSLKLSVIHRDVKPSNVLINKEGHVK
MCDFGISGYLVDSVAKTMDAGCKPYMAPERINPELNQKGYNVKSDVWSLGITMIEMAILRFPYESW
GTPFQQLKQVVEEPSQLPADQFSPEFVDFTSQCLRKNPAERMSYLELMEHPFFTLHKTKKTDIAAF
VKEILGEDS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Dual specificity mitogen-activated protein kinase kinase 3 (MAP kinase kinase 3) (MAPKK 3) (EC 2.7.12.2) (MAPK/ERK kinase 3) (MEK 3) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.

Subcellular Localization: N/A

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.