



A Reliable Research Partner in Life Science and Medicine

Recombinant Human MAPK14 protein (His tag)

Catalog No. PDEH100394

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Mitogen-activated protein kinase 14;MAPK14;MAP kinase MXI2;MAX-interacting

protein 2

Species Human Expression Host E.coli

Sequence Met 1-Ala 300

AccessionQ16539Calculated Molecular Weight32.9 kDaObserved molecular weight32 kDa

Tag N-His & C-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis

Background

The p38 Mitogen-activated Protein Kinases (MAPKs) are a family of four related Ser/Thr kinases activated by proinflammatory cytokines and environmental stresses, such as UV irradiation and heat shock. Stress signals are delivered to this cascade by members of small GTPases of the Rho family (Rac, Rho, Cdc42). p38 MAPK is involved in the regulation of Hsp27 and MAPKAP-2 and several transcription factors including ATF2, STAT1, and indirectly CREB via activation of MSK1. The p38 MAPK protein also plays a role in cell differentiation, autophagy and apoptosis. Mkk3 and SEK can activate p38 MAPK by phosphorylation at Thr180 and Tyr182, which in turn activates the MAPKAP kinase 2 and regulating phosphorylation of ATF2, Mac and MEF2.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u>

Email: techsupport@elabscience.com