Recombinant Human MAP4K2 Protein (His Tag)

Catalog Number: PDEH101050

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

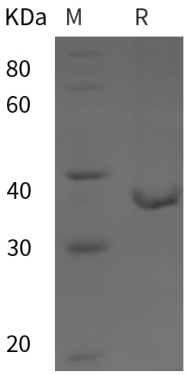
Description

Species	Human
Source	E.coli-derived Human MAP4K2 protein Ile501-Tyr812, with an N-terminal His & C-terminal His
Calculated MW	34.2 kDa
Observed MW	35 kDa
Accession	Q12851-2
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
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 a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
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.

Data



SDS-PAGE analysis of Human MAP4K2 proteins, 2 μg/lane of Recombinant Human MAP4K2 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 kDa.

Background

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Mitogen-activated protein kinase kinase kinase kinase 2, also known as B lymphocyte serine/threonine-protein kinase, Germinal center kinase, MAPK/ERK kinase kinase kinase 2, MEK kinase kinase 2, Rab8-interacting protein and MAP4K2, is a cytoplasm and peripheral membrane protein which belongs to the ,protein kinase superfamily, STE Ser/Thr protein kinase family and STE20 subfamily. MAP4K2 contains one ,CNH domain and one , protein kinase domain. Although this kinase is found in many tissues, its expression in lymphoid follicles is restricted to the cells of germinal centre, where it may participate in B-cell differentiation. MAP4K2 can be activated by TNF-alpha, and has been shown to specifically activate MAP kinases. It is also found to interact with TNF receptor-associated factor 2 (TRAF2), which is involved in the activation of MAP3K1 / MEKK1. MAP4K2 enhances MAP3K1 oligomerization, which may relieve amino-terminal mediated MAP3K1 autoinhibition and lead to activation following autophosphorylation. It may also play a role in the regulation of vesicle targeting or fusion.

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