Recombinant Human MAP4K2/GC Kinase Protein (His &GST Tag)

Catalog Number: PKSH030347

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

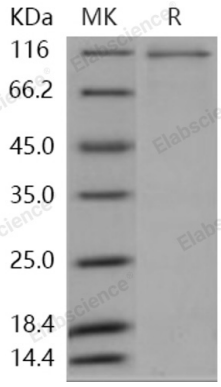
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human MAP4K2/GC Kinase protein Met 1-Tyr 812, with an N-terminal His & GST
Calculated MW	119 kDa
Observed MW	116 kDa
Accession	AAH47865.1
Bio-activity	Not validated for activity

Properties

Purity	> 87 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of 50mM Tris, 100mM NaCl, pH 8.0

Data



> 87 % as determined by reducing SDS-PAGE.

Background

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 theprotein kinase superfamily, STE Ser/Thr protein kinase family and STE20 subfamily. MAP4K2 contains oneCNH domain and oneprotein 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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