Recombinant Human TPL2/MAP3K8/MEKK8 Protein (GST Tag)

Catalog No. PKSH030380

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

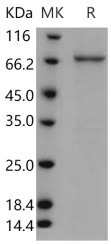
Description

Synonyms	AURA2;c-COT;COT;EST;ESTF;MEKK8;Tpl-2;TPL2
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 30-Arg 397
Accession	P41279-1
Calculated Molecular Weight	68.0 kDa
Observed molecular weight	68 kDa
Tag	N-GST
Bioactivity	Not validated for activity

Properties

Purity	> 91 % as determined by reducing SDS-PAGE.
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, 0.5mM PMSF, 0.5mM GSH, pH 8.0
Reconstitution	Not Applicable

Data



> 91 % as determined by reducing SDS-PAGE.

Background

Mitogen-activated protein kinase kinase kinase 8, also known as Cancer Osaka thyroid oncogene, Proto-oncogene c-Cot, Serine/threonine-protein kinase cot, Tumor progression locus 2 and MAP3K8, is a cytoplasm protein which belongs to theprotein kinase superfamily, STE Ser/Thr protein kinase family and MAP kinase kinase kinase subfamily. MAP3K8 is expressed in several normal tissues and human tumor-derived cell lines. Isoform1of MAP3K8 is activated specifically during the S and G2/M phases of the cell cycle. MAP3K8 is required for TLR4 activation of the MEK/ERK pathway. It is

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Web: www.elabscience.com Email: techsupport@elabscience.com

able to activate NF-kappa-B 1 by stimulating proteasome-mediated proteolysis of NF-kappa-B 1/p105. MAP3K8 plays a role in the cell cycle. The longer form has some transforming activity, although it is much weaker than the activated cot oncoprotein. MAP3K8 oncogene linked to human endometrial carcinoma suggesting that it may be another molecule involved in human endometrial cancer. MAP3K8 may also be an important mediator of intracellular mechanotransduction in human bone marrow-derived mesenchymal stem cells (MSCs).

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