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Recombinant Human MAP3K8/COT Kinase

Catalog No.: RP03398LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1326	P41279

Tags
N-His-GST

Synonyms
MAP3K8; COT; ESTF; TPL-2; Cancer Osaka thyroid oncogene; c-Cot; Tumor progression locus 2; Mitogen-activated protein kinase kinase kinase 8

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW	Observed MW
65.9 kDa	60-70 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

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Background

Mitogen-activated protein kinase kinase kinase 8 is an enzyme that in humans is encoded by the MAP3K8 gene. MAP3K8 is a member of the serine/threonine-specific protein kinase family. This kinase can activate ERK1, ERK2 and p38 MAP kinases, and was shown to activate IkappaB kinases, and thus induce the nuclear production of NF-kappaB. This kinase was also found to promote the production of TNF-alpha and IL-2 during T lymphocyte activation. Studies of a similar gene in rat suggested the direct involvement of this kinase in the proteolysis of NF-kappaB1, p105 (NFKB1).

Basic Information

Description
Recombinant Human MAP3K8/COT Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met30-Arg397) of Human MAP3K8 (Accession #P41279) fused with a N-His-GST tag.

Bio-Activity
The activity of COT is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.
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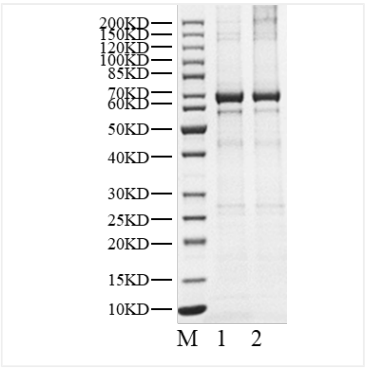
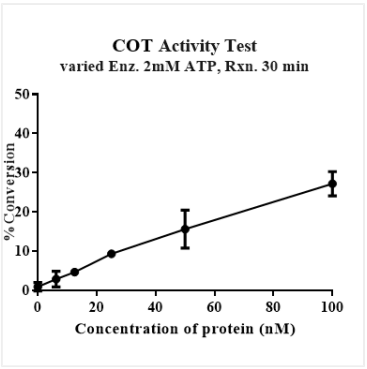
Validation Data



Recombinant Human MAP3K8/COT Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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