

COT recombinant protein

COT, Active

CATALOG # AAA73014	HOST Sf9 insect cells using baculovirus	APPLICATIONS Western Blot
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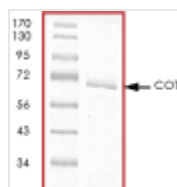
PRODUCT SYNONYMS

COT; Active; COT recombinant protein

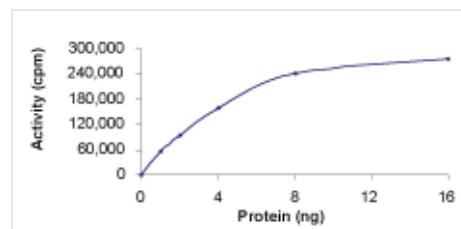
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Sequence Positions	30-397
Sequence Length	3013
Applicable Applications for COT recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for COT recombinant protein

Description: Recombinant human COT (30-397) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Scientific Background: COT is an oncogene that can activate both the MAP kinase and JNK kinase pathways. COT activates I κ B kinases and induces the nuclear production of NF- κ B. C-terminal catalytic domain of KSR2 associates with COT and KSR2 can negatively regulates the kinase activity of COT in vitro. Co-transfection of KSR2 with COT in cells lead to reduced COT-mediated ERK activation and COT-induced IL8 production in a dose-dependent manner (1). Cot is one of the MAP kinase kinase kinases that regulates the ERK1/ERK2 pathway in response to IL-1. Blockage of expression of Cot results in failure of IL-1 to induce an increase in IL-8 and MIP-1 β mRNA levels (2).

Product Categories/Family for COT recombinant protein	Enzymes; Active Kinases
References	1. Channavajhala, P L. et al: Identification of a novel human kinase supporter of Ras (hKSR-2) that functions as a negative regulator of Cot (Tpl2) signaling. J. Biol. Chem. 278: 47089-47097, 2003. 2. Rodr-guez C. et al: TRAF6 and Src kinase activity regulates Cot activation by IL-1. Cell Signal. 2006 Sep;18 (9):1376-85.

NCBI AND UNIPROT INFORMATION

NCBI GI #	346644791
NCBI GeneID	1326
NCBI Accession #	NM_005204.3
NCBI GenBank Nucleotide #	NM_005204
UniProt Accession #	P41279; Q14275; Q5T855; Q9HC81; A8K2Q5; D3DRX1
Molecular Weight	~70 kDa
NCBI Official Full Name	Homo sapiens mitogen-activated protein kinase kinase kinase 8 (MAP3K8), transcript variant 1, mRNA
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 8
NCBI Official Symbol	MAP3K8
NCBI Official Synonym Symbols	COT; EST; ESTF; TPL2; AURA2; MEKK8; Tpl-2; c-COT
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 8
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 8
UniProt Gene Name	MAP3K8
UniProt Synonym Gene Names	COT; ESTF; TPL-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/map3k8-recombinant-protein-sf9-wb-western-blot-kinase-assay/73014>