MAP3K8
Recombinant Human Mitogen-activated Protein kinase 8 Active GST-His

Catalog No.	CRC048	**Quantity:**	50 µg

Alternate Names: COT, EST, ESTF, FLJ10486, TPL2, Tpl-2, c-COT, Cancer Osaka thyroid oncogene, Ewing sarcoma transformant, cot (cancer Osaka thyroid) oncogene, proto-oncogene serine/threoine protein kinase, tumor progression locus-2

Description: Human COT, internal fragment, amino acids M_{30}-R_{397} (as in GenBank entry NM_005204) *, N-terminal GST-HIS_6 fusion protein (His tag) with a Thrombin cleavage site, expressed in Sf9 insect cells.
*Sequence may contain documented polymorphisms.
Detailed aa-sequence on request.

Concentration: 0.088 µg/µl

Gene ID: 1326

Protein Accession No: NM_005204

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 71,561 Da

Formulation: 50 mM HEPES pH 7.5 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol

Purification: GST-Affinity Chromatography

Product Identity: COT was confirmed as COT by mass spectroscopy LC-ESI-MS/MS

Specific Activity: 38 pmol/µg×min
Method for determination of K_m value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: Myelin Basic Protein, 5 µg / 50 µl
COT: 200 ng / 50 µl
• Filter binding assay
MSFC membrane (Millipore)

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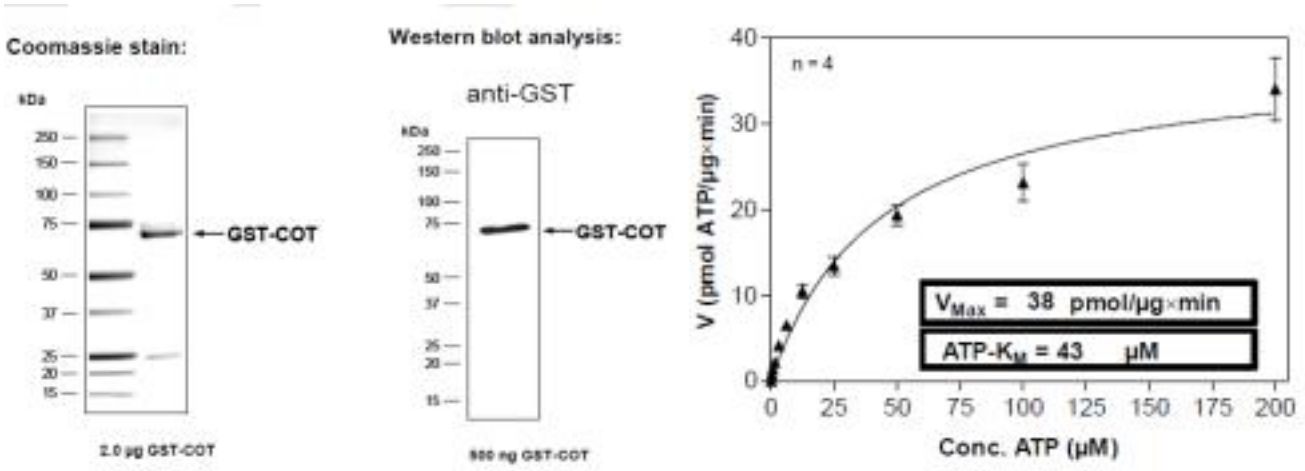
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of Km value for ATP:



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