

Recombinant Human COT (N-GST tag) Cat No:HR2R1291

For research use only

Overview

| Quantity | 10 ?g |
|-----------------------|--|
| Gene Symbol | СОТ |
| Gene ID | N/A |
| Accession | NM_005204 |
| Alternative Name | MAP3K8, EST, ESTF, TPL2, Tpl-2, c-COT, FLJ10486 |
| Species | Human |
| Source | |
| Description | COT is an oncogene that can activate both the MAP kinase and JNK kinase pathways. COT activates IkappaB kinases and induces the nuclear production of NF-kappaB. 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 . 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-1betamRNA levels. |
| Functions | The specific activity of COT was determined to be 1012 nmol /min/mg as per activity assay protocol. |
| Formulation | 50mM Tris-HCI, pH 7.5, 150mM NaCI, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol. |
| Solubility | N/A |
| Appearance | Liquid |
| Molecular Weight | 70 |
| Purity | 70% - 90% |
| Concentration | |
| Shipping Condition | Dry Ice |
| Storage Condition | Store product at ?70?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. |