

Recombinant Human MEKK3 (N-GST tag)

Cat No:HR2R1720

For research use only

Overview

Quantity	10 ?g
Gene Symbol	MEKK3
Gene ID	N/A
Accession	NM_002401
Alternative Name	MAP3K3, MAPKKK3
Species	Human
Source	Insect cells
Description	MEKK3 is a member of the MEKK family of protein kinases that directly regulate SAPK and ERK pathway but not the p38 pathway. MEKK3 modulates SAPK and ERK activity by activating the upstream targets SEK and MEK1/2, respectively . KSR2 can regulate the activity of MEKK3 and can reduce MEKK3-mediated ERK activation. Knockout of the MEKK3 gene in mice leads to disruption of blood vessel development and the structural integrity of the yolk sac . The blockage of angiogenesis in these mice is not a result of decreased VEGF1 expression but rather due to an intrinsic defect in Mekk3 -/- endothelial cells. Thus, MEKK3 is necessary for blood vessel development and may be a possible target for drugs that control angiogenesis.
Functions	The specific activity of MEKK3 was determined to be 20 nmol /min/mg as per activity assay protocol
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	105
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.