

Mitogen Activated Kinase Kinase 1 Human Recombinant

Item Number	rAP-1716
Synonyms	MEK1, MKK1, MAPKK1, MAP2K1, Dual specificity mitogen-activated protein kinase kinase 1, MAP kinase kinase 1, EC 2.7.12.2, ERK activator kinase 1, MAPK/ERK kinase 1, PRKMK1.
Description	MAP2K1 active Human Recombinant produced in Sf9 cells is a glycosylated, polypeptide chain containing amino acids 2-393 having a molecular mass of 47 kDa. MAP2K1 is fused to a polyhistidine tag and is purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q02750
Amino Acid Sequence	
Source	Sf9 Insect Cells.
Physical Appearance and Stability	Sterile Filtered clear solution. Store at 4°C if entire vial will be used within 1-2 weeks. Store frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.
Formulation and Purity	MEK1 is supplied at a concentration of in 40mM Tris, pH-8, 0.15M NaCl, 0.27M sucrose, 1mM DTT, 0.2mM PMSF, 1mM benzamidine, 0.1mM sodium vanadate and 0.03% Brij-35. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	~125-175 units/mg. One unit of MEK1 activity transfers 1 nmol of phosphate to ERK1/2 peptide per minute at 30°C in a reaction containing 100µM ATP. Recombinant active MEK1 also phosphorylates ERK1, ERK2, and GSK-3?. Kinase activity may vary depending on t
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**