

Active Recombinant Human KIAA1804, GST-tagged

Cat. No. KIAA1804-85H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MLK4 (1-557) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-557 a.a.
Description	MLK4 or mixed lineage kinase 4 belongs to the superfamily of MAP kinase kinase kinases (MAP3K1) which contain both ser/thr and tyr kinases activity in their catalytic domains. The structure of this kinase family incorporates an N-terminal Src homology (SH3) domain, followed by the kinase domain, a leucine zipper region, and a CDC42 /RAC -interactive binding (CRIB) motif, but divergent C-terminal regions. MLK4 is highly expressed in kidney and pancreas. MLK4 is a negative regulator of TLR4.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of MLK4 was determined to be 22 nmol/min/mg as per activity assay protocol.
Molecular Mass	?~61 kDa
AA Sequence	1-557

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Purity	The purity of MLK4 was determined to be >80% by densitometry, approx.
Applications	Kinase Assay; Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at -70oC. 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.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	KIAA1804?mixed lineage kinase 4 [?Homo sapiens?(human)]
Official Symbol	KIAA1804
Synonyms	KIAA1804; MLK4; dJ862P8.3; RP5-862P8.2; mixed lineage kinase 4; mitogen-activated protein kinase kinase kinase MLK4; EC 2.7.11.25
Gene ID	84451
mRNA Refseq	NM_032435
Protein Refseq	NP_115811
MIM	614793
UniProt ID	Q5TCX8

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Chromosome Location	1q42
Function	ATP binding; MAP kinase kinase kinase activity; protein homodimerization activity

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