DLK Protein
Recombinant human protein expressed in Sf9 cells

Catalog # M20-31G
Lot # Y1008-1

Product Description
Recombinant human DLK (1-520) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_006301.

Gene Aliases
MAP3K12; MUK; ZPK; ZPKP1; MEKK12; MAP3K12

Formulation
Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

Storage and Stability
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.

Scientific Background
DLK or mitogen-activated protein kinase kinase kinase 12 is a transmembrane protein containing six epidermal growth factor repeats and is a serine/threonine protein kinase. DLK is involved in the differentiation of several cell types, including adipocytes. DLK plays a role of a tumor suppressor protein and is predominately expressed in neuronal cells. DLK plays a role as a tumor suppressor protein and is predominately expressed in neuronal cells. DLK as an activator of the Jnk pathway. Overexpression of DLK results in activation of Jnk1 and the accumulation of a hyperphosphorylated form of c-Jun (1). Postnatal loss of DLK in stem cells and niche astrocytes has been shown to regulate neurogenesis (2).

References

Purity
The purity of DLK was determined to be >75% by densitometry. Approx. MW 94 kDa.

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