

Product Information

**DLK, GST-tagged, human
recombinant, expressed in *Sf9* cells**

Catalog Number **SRP5365**
Storage Temperature -70°C

Synonyms: MAP3K12, MUK, ZPK, ZPKP1, MEKK12,
MAP3K12

Product Description

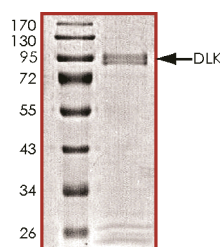
DLK or mitogen-activated protein kinase kinase kinase 12 is a transmembrane serine/threonine protein kinase containing six epidermal growth factor repeats. DLK is involved in the differentiation of several cell types, including adipocytes. DLK plays the role of a tumor suppressor protein and is predominately 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

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. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~94 kDa

The enzymatic activity of this product has not been determined.

Figure 1.
SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Hirai, S. et al., Activation of the JNK pathway by distantly related protein kinases, MEKK and MUK. *Oncogene*, **12**, 641-650 (1996).
2. Ferron, S.R. et al., Postnatal loss of Dlk1 imprinting in stem cells and niche astrocytes regulates neurogenesis. *Nature*, **475**, 381-385 (2011).

RC,MAM 10/12-1