

MLKL Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms: hMLKL;MLKL;Mixed lineage kinase domain-like protein

Protein Construction: 1-471 aa

Species: Human

Expression Host: E. coli

Accession: Q8NB16

Molecular Weight: 58.5 kDa (predicted)

AA Sequence:

MENLKHIIITLGQVIHKRCEEMKYCKKQCRRLGHRVGLGIKPLEMLQDQGKRSVPSEKLTAMNRFKAAL E E A N
GEIEKFSNRSNICRFLTASQDKILFKDVRNKLSDVVKELSLLLQVEQRMPVSPISQGASWAQEDQQDADEDR
RAFQMLRRDNEKIEASLRRLEINMKEIKETLRQYLPPKCMQEIPQEIQEIKKEQLSGSPWILLRENEVSTLYKGE
YHRAPVAIKVFKKLQAGSIAIVRQTFNKEIKTMKKFESPNI LRIFGICIDETVTPPQFSIVMEYCELGTLRELLDREK
DLTLGKRMV LVLGAARGLYRLHHSEAPELHGKIRSSNFLVTQGYQVKLAGFELRKTQTSMSLGTTREKTRDRVK
STAYLSPQELEDVFYQYDVKSEIYSFGIVLWEIATGDIPFQGCNSEKIRKLVAVKRQQEPLGEDCPSSELREIIDEC
RAHDPVSRPSVDEILKKLSTFSK

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process. Does not have protein kinase activity. Activated following phosphorylation by RIPK3, leading to homotrimerization, localization to the plasma membrane and execution of programmed necrosis characterized by calcium influx and plasma membrane damage. In addition to TNF-induced necroptosis, necroptosis can also take place in the nucleus in response to orthomyxoviruses infection: following activation by ZBP1, MLKL is phosphorylated by RIPK3 in the nucleus, triggering disruption of the nuclear envelope and leakage of cellular DNA into the cytosol. following ZBP1 activation, which senses double-stranded Z-RNA structures, nuclear RIPK3 catalyzes phosphorylation and activation of MLKL, promoting disruption of the nuclear envelope and leakage of cellular DNA into the cytosol. Binds to highly phosphorylated inositol phosphates such as inositolhexakisphosphate (InsP6) which is essential for its necroptotic function.

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