Recombinant Human MLKL Protein (E2-K471), Tag Free

Cat. No. MLKL-0925H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-MLKL(E2-K471 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	E2-K471
Description	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.
Form	Liquid
Endotoxin	< 0.01 EU per

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	μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MLKL mixed lineage kinase domain-like [Homo sapiens (human)]
Official Symbol	MLKL
Synonyms	MLKL; mixed lineage kinase domain-like; mixed lineage kinase domain-like protein; FLJ34389;
Gene ID	197259
mRNA Refseq	NM_001142497
Protein Refseq	NP_001135969
UniProt ID	Q8NB16

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