

Recombinant Mouse LMTK3, GST-tagged

Cat. No. LMTK3-7004M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LMTK3 (63-484) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	63-484 aa
Description	LMTK3, or Lemur tyrosine kinase 3, belongs to the LMR subfamily of tyr protein kinases. LMTK3 decreases the activity of protein kinase C (PKC) and also leads to phosphorylation of AKT (Ser473), thereby increasing binding of forkhead box O3 (FOXO3) to the ESR1 promoter. LMTK3 phosphorylates ER α , protecting it from proteasomal degradation in vitro. Knockdown of LMTK3 leads to a reduction of tumor volume in an orthotopic mouse model and abrogates proliferation of ER α ⁺ but not ER α ⁻ cells, indicative of its role in ER α activity. These findings reveal LMTK3 as a new therapeutic target for breast cancer.
Form	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.
Molecular Mass	~75 kDa
Purity	>75%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Lmtk3 lemur tyrosine kinase 3 [Mus musculus]
Official Symbol	LMTK3
Synonyms	LMTK3; lemur tyrosine kinase 3; serine/threonine-protein kinase LMTK3; apoptosis-associated tyrosine kinase 3; aatyk3; BC059845; MGC90743;
Gene ID	381983
mRNA Refseq	NM_001005511
Protein Refseq	NP_001005511
Function	ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;

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