

Catalog #	Aliquot Size
L08-35G-20	20 µg
L08-35G-50	50 µg

## LMTK3 Protein

Recombinant protein expressed in Sf9 cells

### Catalog # L08-35G

Lot # Y1092-1

#### Product Description

Recombinant mouse LMTK3 (63-484) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is [NM\\_001005511](#).

#### Gene Aliases

AATYK3; MGC90743

#### 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.

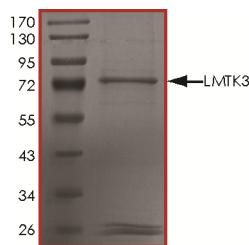
#### Scientific Background

LMTK3, or Lemur tyrosine kinase 3, belongs to the LMR subfamily of tyrosine 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 ERα, 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 ERα+ but not ERα- cells, indicative of its role in ERα activity. These findings reveal LMTK3 as a new therapeutic target for breast cancer (1).

#### References

1. Giamas G et al: Kinome screening for regulators of the estrogen receptor identifies LMTK3 as a new therapeutic target in breast cancer. Nat Med. 2011 Jun;17(6):715-9.

#### Purity



The purity of LMTK3 was determined to be >80% by densitometry. Approx. MW **75 kDa**.

## LMTK3 Protein

Recombinant protein expressed in Sf9 cells

Catalog #	L08-35G
Lot #	Y1092-1
Purity	>80%
Concentration	0.1 µg/µl
Stability	1yr at -70°C from date of shipment
Storage & Shipping	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. Product shipped on dry ice.

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