

Product Information

LMTK3, GST-tagged, mouse recombinant, expressed in Sf9 cells

Catalog Number **SRP5362**
Storage Temperature -70°C

Synonyms: AATYK3, MGC90743

Product Description

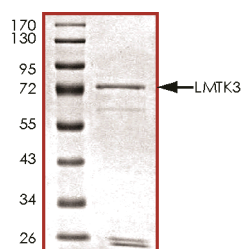
LMTK3 (Lemur tyrosine kinase 3) belongs to the LMR subfamily of tyr protein kinases. LMTK3 decreases the activity of protein kinase C (PKC) and also leads to phosphorylation of AKT (ser⁴⁷³); thereby, increasing binding of forkhead box O3 (FOXO3) to the ESR1 promoter. LMTK3 phosphorylates ER α , protecting 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.¹

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. 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: ~75 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. Giamas, G. et al., Kinome screening for regulators of the estrogen receptor identifies LMTK3 as a new therapeutic target in breast cancer. *Nat. Med.*, **17**(6), 715-9 (2011).

RC,MAM 10/12-1