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## Product Datasheet

### Human LMTK3 protein, His and SUMO tag (active), Unconjugated GTX00071-PRO

Article Name	Human LMTK3 protein, His and SUMO tag (active), Unconjugated
Biozol Catalog Number	GTX00071-PRO
Supplier Catalog Number	GTX00071-pro
Alternative Catalog Number	GTX00071-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">114783</a>
UniProt	<a href="#">Q96Q04</a>
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His and SUMO-Tag, Leu133~Leu411

Application Notes

Lemur tyrosine kinase 3 (LMTK3), a member of the receptor tyrosine kinase (RTK) family, is implicated in breast cancer growth and endocrine resistance. It has been reported that LMTK3 promotes cell invasion, motility, and migration of the MCF-7 breast cancer cell line. To test the bioactivity of LMTK3, MCF-7 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of LMTK3. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37C. Cell proliferation of MCF-7 cells after incubation with LMTK3 for 72h observed by inverted microscope. LMTK3 significantly promoted cell proliferation of MCF-7 cells. The ED50 for this effect is approximately 6. 14-50 ng/ml.