

Recombinant Mouse LMTK1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51721

Size: 10ug, 100ug

Protein Name: Serine/threonine-protein kinase LMTK1 (EC 2.7.11.1) (Apoptosis-associated tyrosine kinase) (AATYK) (Brain apoptosis-associated tyrosine kinase) (Lemur tyrosine kinase 1)

Synonym: Aatk, Aatyk, Kiaa0641, Lmr1, Lmtk1

UniProt ID: Q80YE4

UniProt Link: www.uniprot.org/uniprotkb/Q80YE4/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1365 AA

Molecular Weight: 145 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSSSFFNPSFAFSSHFDPDGAPLSELSWSSSLAVVAVSFSGIFTVVILMLACLCKKGGIGFKEFENA
EGDEYVADFSEQGSPAAAAQTGPDVYVLPLTEVSLPMAKQPGRSVQLLKSTDLGRHSLLYLKEIGH
GWFGKVFLGEVHSGVSGTQVVVKELKVSASVQEQMQFLEEAQPYRALQHSNLLQCLAQCAEVTPY
LLVMEFCPLGDLKGYLRSRVTESMAPDPLTLQRMACEVACGVHLHHRHNYVHSDLALRNCLLTAD
LTVKVG DYGLSHCKYREDYLV TADQLWVPLRWIAPELVDEVHGNLLVVDQTKSSNVWSLGV TIWEL
FELGAQPYPQHSDRQVLAYAVREQQLKLPKQLQLALSDRWYEV MQFCWLQPEQRPTAEVHLLL
SYLCAKGTTELEEEFERRWRSRLRPGGSTGLGSGSAAPAAATAASAELTAASSFP LLERFTSDGFHV
DSDDVLTVTETSHGLNFEYKWEAGCGAEEYPPSGAASSPSGAARLQELCAPDSSPPGVVPVLSAH
SPSVGSEYFIRLEGAVPAAGHDPCAGCAPSPQAVTDQDNNSEESTVASLAMEPLLGHAPPT EGLW
GPCDHHSHRRQGSPCPSRSPSPGTPMLPAEDIDWGVATFCPPFFDDPLGASPSGSPGAQPSPSDE
EPEEGKVGLAAQCGHWSSNMSANNNASRPDES WDPGYVSSFTDSYRDDCSSLEQT PRASPEVG
HLLSQEDPRDFLPGLVAVSPGQEPSRPFNLLPLCPAKGLAPAACLITSPWTEGAVGGAENPIVEPKL
AQEAEGSAEPQLPLPSVPSPSCEGASLPSEEASAPDILPASPTPAAGSWVTVPEPAP TLESSGSSLG
QEAPSS EDED TTEATSGVFTDLSSDGPHTKSGIVPALRSLQKQVGTPD SLDSL DIPSSASDGGCEV
LPSAAGPPGGQPRAVD SGYDTENYESPEFVLKEAHESSEPEAFGEPA SEGESPGDPDLLSVSLGG
LSKKSPYRDSAYFSDLDAESEPTFGPEKHSGIQDSQKEQDLRSPSPSGHQSVQAFPRSAVSSEVLS
PPQQSEEPLPEVPRPEPLGAQGPVGVQVPGPSHSHKCFPLTSVPLISEGSGTEPQGPGSGQLSGRA



QQGQMGNPSTPRSPCLALPGHPGALEGRPEEDEDTEDESSEELRCYSVQEPSEDSEEEPPAV
PVVVAESQSARNLRSLLKMPSLLSEAFCDLERKKKAVSFFDDVTYVLFQESPTRETGEPFPSTKE
SLPTFLEGGPSSPSATGLPLRAGHSPDSSAPEPGSRFEWDGDFPLVPGKAALVTELDPADPVLAAP
PTPAAPFSRFTVSPTPASRFSITHISDSDAQSVGGPAAGAGGRYTEA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Serine/threonine-protein kinase LMTK1 (EC 2.7.11.1) (Apoptosis-associated tyrosine kinase) (AATYK) (Brain apoptosis-associated tyrosine kinase) (Lemur tyrosine kinase 1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: May be involved in neuronal differentiation.

Subcellular Localization: Membrane ; Single-pass type I membrane protein . Cytoplasm . Cytoplasm, perinuclear region . Cell projection, dendrite . Cell projection, axon . Cell projection, growth cone . Note=Predominantly perinuclear.; [Isoform 2]: Membrane. Note=Peripheral membrane protein.; [Isoform 3]: Membrane; Single-pass type I membrane protein.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.