

Recombinant Mouse UFO Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51544

Size: 10ug, 100ug

Protein Name: Tyrosine-protein kinase receptor UFO (EC 2.7.10.1) (Adhesion-related kinase)

Synonym: Axl, Ark, Ufo

UniProt ID: Q00993

UniProt Link: www.uniprot.org/uniprotkb/Q00993/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 888 AA

Molecular Weight: 98 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGRVPLAWWLALCCWGCAAHKDTQTEAGSPFVGNPGNITGARGLTGTLRCELQVQGEPPEVWWL
RDGQILELADNTQTQVPLGEDWQDEWKVVSQLRISALQLSDAGEYQCMVHLEGRTFVSQPGFVGL
EGLPYFLEEPEDKAVPANTPFNLSCQAQGPPEPVTLWLQDAVPLAPVTGHSSQHSLQTPGLNKTS
SFSCEAHNAKGVTTSRTATITVLPQRPHHLHVSRQPTELEVAWTPGLSGIYPLTHCNLQAVLSDDG
VGIWLGKSDPPEDPLTLQVSVPPHQLRLEKLLPHTPYHIRISCSSSQGPSPWTHWLPVETTEGVPLG
PPENVSAMRNGSQVLVRWQEPRVPLQGTLLGYRLAYRGQDTPEVLMDIGLTREVTLELRGDRPVA
NLTVSVTAYTSAGDGPWSLPVPLEPWRPGQGQPLHHLVSEPPPPRAFSWPWWYVLLGALVAAACVL
ILALFLVHRRKKETRYGEVFPTVERGELVVRVVRKSYSRRTTEATLNSLGISEELKEKLRDVMVDR
HKVALGKTLGEGEFGAVMEGQLNQDDSLKVAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRLI
GVCFGQSDREGFPEPVVILPFMKHGDLSFLLYSRLGDQPVLPTQMLVKFMADIASGMEYLSTKRF
IHRDLAARNCMLENMSVCVADFGLSKKIYNGDYRQGRKAKMPVKWIAIESLADRVYTSKSDVWSF
GVTMWEIATRGQTPYPGVENSEIYDYL RQGNRLKQPVDCLDGLYALMSRCWELNPRDRPSFAELR
EDLENTLKALPPAQEPDEILYVNMDEGGSHLEPRGAAGGADPPTQDPDKDSCSCLTAADVHSAGRY
VLC PSTAPGPTLSADRGCPAPPGQEDGA

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 Tyrosine-protein kinase receptor UFO (EC 2.7.10.1) (Adhesion-related kinase) 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: Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding growth factor GAS6 and which is thus regulating many physiological processes including cell survival, cell proliferation, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of AXL. Following activation by ligand, AXL binds and induces tyrosine phosphorylation of PI3-kinase subunits PIK3R1, PIK3R2 and PIK3R3; but also GRB2, PLCG1, LCK and PTPN11. Other downstream substrate candidates for AXL are CBL, NCK2, SOCS1 and TNS2. Recruitment of GRB2 and phosphatidylinositol 3 kinase regulatory subunits by AXL leads to the downstream activation of the AKT kinase. GAS6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses. Also plays an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response.

Subcellular Localization: Cell 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.