Recombinant Rat Ephrin-A1

Catalog No: #AP72535

Package Size: #AP72535-1 20ug #AP72535-2 100ug #AP72535-3 1mg

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Description

Product Name	Recombinant Rat Ephrin-A1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:18-182aaSequence Info:Full Length
Other Names	EPH-related receptor tyrosine kinase ligand 1 ;LERK-1Immediate early response protein B61
Accession No.	P97553
Uniprot	P97553
GeneID	94268;
Calculated MW	21.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	ADRHIVFWNSSNPKFREEDYTVHVQLNDYLDIICPHYEDDSVADAAMERYTLYMVEHQEYVTCEPQSKDQVR WKCNQPSAKHGPEKLSEKFQRFTPFTLGKEFKEGHSYYYISKPIYHQETQCLKLKVTVNGKITHSPHAHANPQ EKRLQADDPEVQVLHSIGHS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. Plays an important role in angiogenesis and tumor neovascularization. The recruitment of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assbly. Exerts anti-oncogenic effects in tumor cells through activation and down-regulation of EPHA2. Activates EPHA2 by inducing tyrosine phosphorylation which leads to its internalization and degradation. Acts as a negative regulator in the tumorigenesis of gliomas by down-regulating EPHA2 and FAK. Can evoke collapse of bryonic neuronal growth cone and regulates dendritic spine morphogenesis .

References

Molecular cloning and expression of rat and mouse B61 gene implications on organogenesis.Takahashi H., Ikeda T.Oncogene 11:879-883(1995)Research Topic:Others

Note: This product is for in vitro research use only