

Recombinant Human Ephrin-A1(EFNA1),partial

Catalog No: #AP70256

Package Size: #AP70256-1 20ug #AP70256-2 100ug #AP70256-3 1mg

Description

Product Name	Recombinant Human Ephrin-A1(EFNA1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:19-182aaSequence Info:Partial
Accession No.	P20827
Calculated MW	35.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	DRHTVFWNSSNPKFRNEDYTIHVQLNDYVDIICPHYEDHSVADAAMEQYILYLVEHEEYQLCQPQSKDQVRW QCNRPSSAKHGPEKLSEKFQRFTPTLGKEFKEGHSYYYISKPIHQHEDRCLRLKVTVSGKITHSPQAHDNPQE KRLAADDPEVRVLHSIGHS
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 assembly. 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

A novel immediate-early response gene of endothelium is induced by cytokines and encodes a secreted protein.Holzman L.B., Marks R.M., Dixit V.M.Mol. Cell. Biol. 10:5830-5838(1990)Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.