Recombinant Rat EFNA1 Protein (18-182 aa), His-tagged

Cat. No. EFNA1-1383R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat EFNA1 Protein (18-182 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	Yeast
ProteinLength	18-182 aa
Description	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.
Form	Tris-based buffer,50% glycerol

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

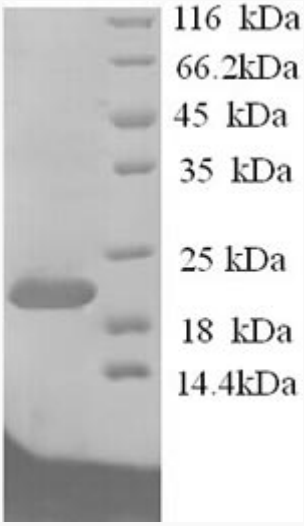
Molecular Mass	21.4 kDa
AA Sequence	ADRHIVFWNSSNPKFREEDYTVHVQLNDYLDIICPHYEDDSVADAAMERYTLYMVEH QEYVTCEPQSKDQVRWKCNQPSAKHGPEKLSEKFQRFTPFTLGKEFKEGHSYYYIS KPIYHQETQCLKLKVTVNGKITHSPHAHANPQEKRLQADDPEVQVLHSIGHS
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Efna1 ephrin A1 [Rattus norvegicus]
Official Symbol	EFNA1
Synonyms	EFNA1; ephrin A1; ephrin-A1; LERK-1; B61;
Gene ID	94268
mRNA Refseq	NM_053599
Protein Refseq	NP_446051

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P97553



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA