

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 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 embryonic neuronal growth cone and regulates dendritic spine morphogenesis.

Form Tris-based buffer, 50% glycerol

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 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 |

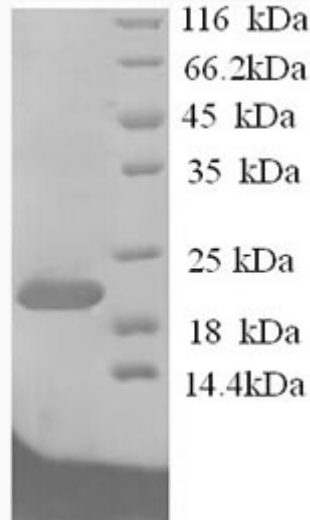
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UniProt ID

P97553



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

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