

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

Cat. No. EFNA1-469R Lot. No. (See product label)

### SPECIFICATION

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

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<b>Molecular Mass</b>	46.4 kDa
<b>AA Sequence</b>	ADRHIVFWNSSNPKFREEDYTVHVQLNDYLDIICPHYEDDSVADAAMERYTLYMVEH QEYVTCEPQSKDQVRWKCNQPSAKHGPEKLSEKFRFTPFTLGKEFKEGHSYYYIS KPIYHQETQCLKLKVTVNGKITHSPHAHANPQEKRLQADDPEVQVLHSIGHS
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
<b>Storage</b>	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.
<b>Concentration</b>	A hardcopy of COA with concentration instruction is sent along with the products.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Efna1 ephrin A1 [ Rattus norvegicus ]</a>
<b>Official Symbol</b>	<a href="#">EFNA1</a>
<b>Synonyms</b>	EFNA1; ephrin A1; ephrin-A1; LERK-1; B61;
<b>Gene ID</b>	<a href="#">94268</a>
<b>mRNA Refseq</b>	<a href="#">NM_053599</a>
<b>Protein Refseq</b>	<a href="#">NP_446051</a>

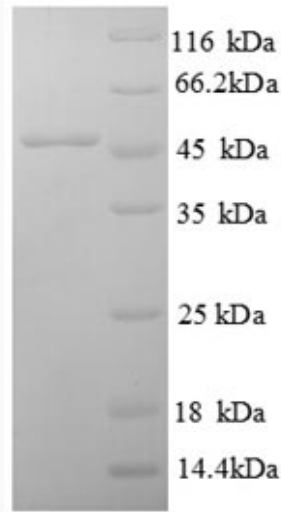
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UniProt ID

P97553



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

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