

Datasheet for ABIN5709441

Ephrin A1 Protein (EFNA1) (AA 18-182) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	Ephrin A1 (EFNA1)
Protein Characteristics:	AA 18-182
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ephrin A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	ADRHIVFWSN SNPKFREEDY TVHVQLNDYL DIICPHYEDD SVADAAMERY TLYMVEHQEY VTCEPQSKDQ VRWKCNPQA KHGPEKLSEK FQRFTPFTLG KEFKEGHSYY YISKPIYHQE TQCLKLVTV NGKITHSPA HANPQEKRLQ ADDPEVQLH SIGH
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

Target:	Ephrin A1 (EFNA1)
Alternative Name:	EFNA1 (EFNA1 Products)
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

Target Details

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 .

Molecular Weight: 23.5 kDa

UniProt: [P97553](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

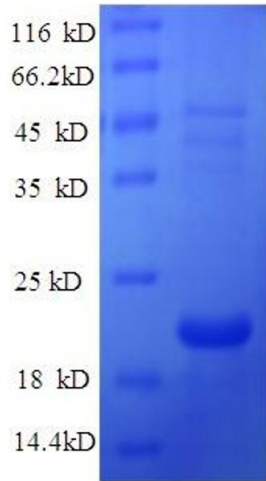
Format: Liquid

Concentration: 0.1-2 mg/mL

Buffer: 20 mM Tris-HCl based buffer, pH 8.0

Storage: -80 °C, 4 °C, -20 °C

Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



SDS-PAGE

Image 1.