

Ephrin A1 (EFNA1) Active Protein | EFNA1 active protein

Active Ephrin A1 (EFNA1)

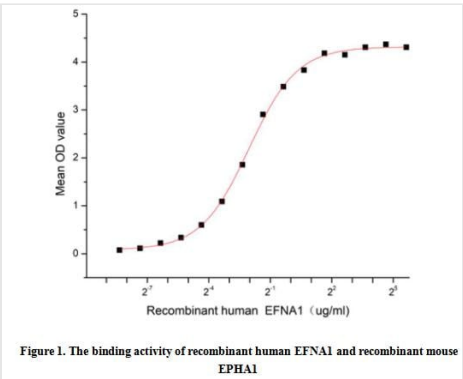
CATALOG # AAA161914	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin A1 (EFNA1); Active Ephrin A1 (EFNA1); Ephrin A1; B61; ECKLG; EFL1; EPLG1; LERK1; TNFAIP4; EPH-related receptor tyrosine kinase ligand 1; Tumor necrosis factor alpha-induced protein 4; Immediate early response protein B614; EFNA1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Asp19~Ser1 82
Applicable Applications for EFNA1 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.4
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

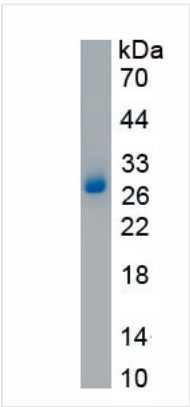


Bioactivity

Ephrin-A1 (EFNA1), also known as EPLG1, LERK1, TNFAIP4, Immediate early response protein B61, is a member of the A-type ephrin family of cell surface proteins that function as ligands for the A-type Eph receptor tyrosine kinase family. EFNA1 plays an important role in angiogenesis and tumor neovascularization. EFNA1 widely affects tumor growth through enhancing tumor angiogenesis, malignant cell events and invasiveness. Ephrin Type A Receptor 1 (EPHA1) is one of high-affinity ligands for EFNA1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA1 and recombinant mouse EPHA1. Briefly, biotin-linked EFNA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to EPHA1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human EFNA1 and recombinant mouse EPHA1 was shown in Figure 1, the EC50 for this effect is 0.24 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for EFNA1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33359682
NCBI GeneID	1942
NCBI Accession #	NP_004419.2
NCBI GenBank Nucleotide #	NM_004428.2
UniProt Accession #	P20827; Q5SR60; Q5SR61; Q6I9T9; Q8N578; D3DV86
Molecular Weight	23,787 Da
NCBI Official Full Name	ephrin-A1 isoform a
NCBI Official Synonym Full Names	ephrin-A1
NCBI Official Symbol	EFNA1
NCBI Official Synonym Symbols	B61; EFL1; ECKLG; EPLG1; LERK1; LERK-1; TNFAIP4
NCBI Protein Information	ephrin-A1; TNF alpha-induced protein 4; ligand of eph-related kinase 1; immediate early response protein B61; eph-related receptor tyrosine kinase ligand 1; tumor necrosis factor alpha-induced protein 4; tumor necrosis factor, alpha-induced protein 4
UniProt Protein Name	Ephrin-A1
UniProt Gene Name	EFNA1

UniProt Synonym Gene Names	EPLG1; LERK1; TNFAIP4; LERK-1
UniProt Entry Name	EFNA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/ephrin-a1-efna1/161914>