

Ephrin A3 (EFNA3) Active Protein | EFNA3 active protein

Active Ephrin A3 (EFNA3)

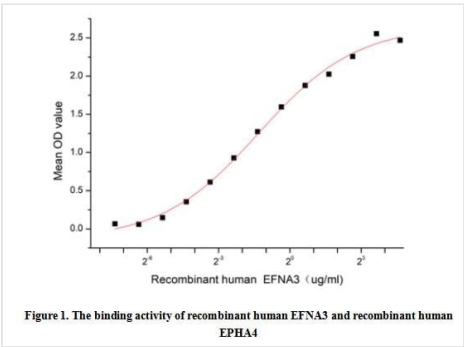
CATALOG # AAA161916	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin A3 (EFNA3); Active Ephrin A3 (EFNA3); Ephrin A3; EFL2; EPLG3; Ehk1-L; LERK3; EHK1 ligand; EPH-related receptor tyrosine kinase ligand 34; EFNA3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gly30~Ser2 38
Applicable Applications for EFNA3 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	8.9
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

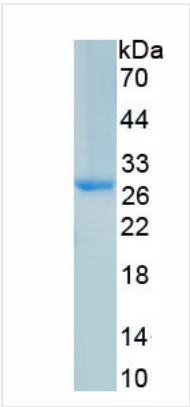


Bioactivity

Ephrin A3 (EFNA3), also known as EFL2, EPLG3, LERK3, Ehk1-L, is a member of the Eph/ephrin tyrosine kinase family. EFNA3 is localized in cell membranes and was highly expressed in brain, skin, esophagus, skeletal muscle, spleen, thymus, prostate, testis, ovary, small intestine, peripheral blood leukocytes. EFNA3, like most genes in the ephrin family, plays a central role in embryonic development can associate with multiple signaling pathways involved in cell growth and tumor cell metastasis. Aberrant regulation of EFNA3 is associated with the occurrence and development of various types of cancer. Ephrin Type A Receptor 4 (EPHA4) is a receptor for members of the ephrin-A family. It can bind to EFNA3. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA3 and recombinant human EPHA4. Briefly, EFNA3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to EPHA4-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-EFNA3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, 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 450/630 nm immediately. The binding activity of recombinant human EFNA3 and recombinant human EPHA4 was shown in Figure 1, the EC50 for this effect is 0.4 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for EFNA3 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826708
NCBI GeneID	1944
NCBI Accession #	NP_004943.1
NCBI GenBank Nucleotide #	NM_004952.4
UniProt Accession #	P52797; Q0VGC9; Q5SR70; D3DV85
Molecular Weight	26,350 Da
NCBI Official Full Name	ephrin-A3
NCBI Official Synonym Full Names	ephrin-A3
NCBI Official Symbol	EFNA3
NCBI Official Synonym Symbols	EFL2; EPLG3; LERK3; Ehk1-L
NCBI Protein Information	ephrin-A3; EFL-2; LERK-3; EHK1 ligand; ligand of eph-related kinase 3; eph-related receptor tyrosine kinase ligand 3
UniProt Protein Name	Ephrin-A3
UniProt Gene Name	EFNA3

UniProt Synonym Gene Names	EFL2; EPLG3; LERK3; EHK1-L; LERK-3
UniProt Entry Name	EFNA3_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-a3-efna3/161916>