

Ephrin A4 (EFNA4) Active Protein | EFNA4 active protein

Active Ephrin A4 (EFNA4)

CATALOG # AAA161918	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin A4 (EFNA4); Active Ephrin A4 (EFNA4); Ephrin A4; EFL4; EPLG4; LERK4; EPH-related receptor tyrosine kinase ligand 44; EFNA4 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	Met1~Leu20 4
Applicable Applications for EFNA4 active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.5
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

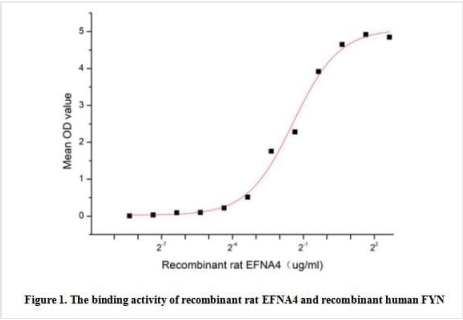
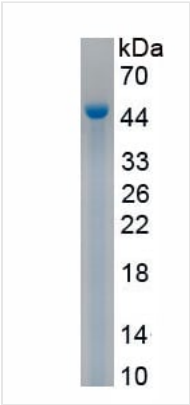


Figure 1. The binding activity of recombinant rat EFNA4 and recombinant human FYN



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
Ephrin-A4, also known as EFNA4 and EFL-4, is a member of the ligand of the EPH family. It is mainly expressed in the spleen, lymph nodes, ovary, small intestine and colon of adults, as well as in the heart, lungs, liver, and kidneys of the fetus. It is involved in the development of neurons, blood vessels, and epithelium by regulating cell migration, rejection, and adhesion. Ephrin-A4 has been shown to bind FYN, EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, and EphB1. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rat EFNA4 and recombinant human FYN. Briefly, EFNA4 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FYN-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-EFNA4 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 rat EFNA4 and recombinant human FYN was shown in Figure 1, the EC50 for this effect is 0.37 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for EFNA4 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157818813
NCBI GeneID	310643
NCBI Accession #	NP_001101162.1
NCBI GenBank Nucleotide #	NM_001107692.1
UniProt Accession #	D3ZEN1
Molecular Weight	22,750 Da
NCBI Official Full Name	ephrin-A4
NCBI Official Synonym Full Names	ephrin A4
NCBI Official Symbol	Efna4
NCBI Protein Information	ephrin-A4
UniProt Protein Name	Ephrin A4
UniProt Gene Name	Efna4

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.