

Ephrin A5 (EFNA5) Active Protein | EFNA5 active protein

Active Ephrin A5 (EFNA5)

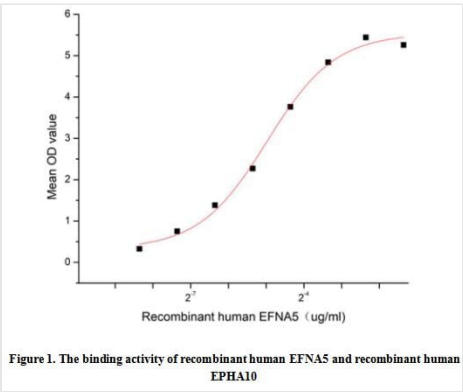
CATALOG # AAA161919	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin A5 (EFNA5); Active Ephrin A5 (EFNA5); Ephrin A5; AF1; EFL5; EPLG7; GLC1M; LERK7; RAGS; AL-1; EPH-related receptor tyrosine kinase ligand 74; EFNA5 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	Gln21~Asn2 03
Applicable Applications for EFNA5 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	6.5
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

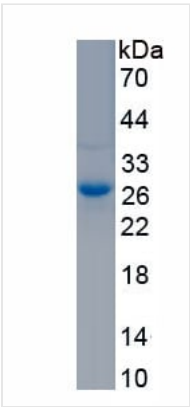


Bioactivity

Ephrin-A5, also known as EFNA5, is a member of the Ephrin family. EFNA5 is localized in cell membranes and was highly expressed in skin, brain, spleen, kidney, heart and fat. EFNA5 can bind to its receptors to play important physiological functions, such as participating in neurogenesis, angiogenesis, promoting cell proliferation and differentiation, balancing glucose homeostasis, maintaining lens development, regulating female mammalian reproduction, and mobilizing fat thermogenesis. EPHA10 is a receptor for members of the ephrin-A family. It binds to EFNA3, EFNA4 and EFNA5. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA5 and recombinant human EPHA10. Briefly, EFNA5 was diluted serially in PBS with 0.01% BSA (pH7.4). Duplicate samples of 100 ul were then transferred to EPHA10-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-EFNA5 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 EFNA5 and recombinant human EPHA10 was shown in Figure 1, the EC50 for this effect is 0.03 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for EFNA5 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503487
NCBI GeneID	1946
NCBI Accession #	NP_001953.1
NCBI GenBank Nucleotide #	NM_001962.2
UniProt Accession #	P52803
Molecular Weight	26,297 Da
NCBI Official Full Name	ephrin-A5
NCBI Official Synonym Full Names	ephrin-A5
NCBI Official Symbol	EFNA5
NCBI Official Synonym Symbols	AF1; EFL5; RAGS; EPLG7; GLC1M; LERK7
NCBI Protein Information	ephrin-A5; AL-1; LERK-7; eph-related receptor tyrosine kinase ligand 7
UniProt Protein Name	Ephrin-A5
UniProt Gene Name	EFNA5

UniProt Synonym Gene Names	EPLG7; LERK7; LERK-7
UniProt Entry Name	EFNA5_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-a5-efna5/161919>