

Ephrin A2 (EFNA2) Active Protein | EFNA2 active protein

Active Ephrin A2 (EFNA2)

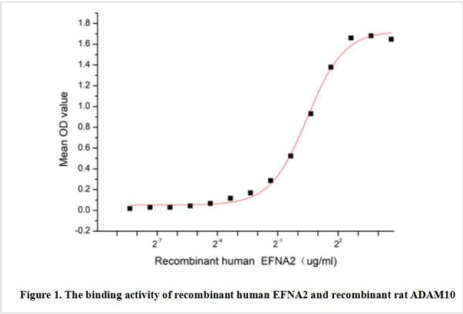
CATALOG # AAA161915	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin A2 (EFNA2); Active Ephrin A2 (EFNA2); Ephrin A2; ELF-1; EPLG6; HEK7-L; LERK6; EPH-related receptor tyrosine kinase ligand 6; HEK7 ligand4; EFNA2 active protein

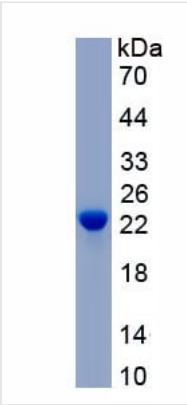
PRODUCT SPECIFICATIONS

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	Asn45~Ser2 13
Applicable Applications for EFNA2 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	6.3
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Ephrin A2 (EFNA2) is a cell surface-associated protein belonging to the Ephrin family, which are involved in intercellular communication and cell localization. EFNA2 is mainly expressed in tissues including the brain, heart, lung, kidney and pancreas. And this protein is involved in regulating a variety of biological processes, including cell migration, cell differentiation, and tissue boundary formation, by interacting with Eph receptors. It also plays a significant role in the development and maintenance of the cardiovascular system, as well as in the regulation of synaptic plasticity and neuronal circuitry in the brain. A Disintegrin And Metalloprotease 10 (ADAM10), a disintegrin and metalloproteinase, can cleave EFNA2, potentially altering the activity of EFNA2 or its interaction with Eph receptors, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA2 and recombinant rat ADAM10. Briefly, biotin-linked EFNA2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to ADAM10-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 EFNA2 and ADAM10 was shown in Figure 1, the EC50 for this effect is 1.38 ug/mL.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for EFNA2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27894381
NCBI GeneID	1943
NCBI Accession #	NP_001396.2
NCBI GenBank Nucleotide #	NM_001405.3
UniProt Accession #	O43921; O76020
Molecular Weight	23,878 Da
NCBI Official Full Name	ephrin-A2
NCBI Official Synonym Full Names	ephrin-A2
NCBI Official Symbol	EFNA2
NCBI Official Synonym Symbols	ELF-1; EPLG6; LERK6; HEK7-L; LERK-6
NCBI Protein Information	ephrin-A2; HEK7 ligand; eph-related receptor tyrosine kinase ligand 6
UniProt Protein Name	Ephrin-A2
UniProt Gene Name	EFNA2
UniProt Synonym Gene Names	EPLG6; LERK6; LERK-6; HEK7-L
UniProt Entry Name	EFNA2_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-a2-efna2/161915>