

Active Recombinant Human EFNA5 protein, His-tagged

Cat. No. EFNA5-2033H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EFNA5 protein(P52803)(21-203 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	21-203 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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 µl were then transferred to EPHA10-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-EFNA5 pAb, then aspirated and washed 3 times. After incubation with HRP

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labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ 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, the EC50 for this effect is 0.03 ug/mL.

Molecular Mass	24.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	EFNA5 ephrin-A5 [Homo sapiens]
Official Symbol	EFNA5
Synonyms	EFNA5; ephrin-A5; EPLG7; AF1; LERK7; AL-1; LERK-7; eph-related receptor tyrosine kinase ligand 7; EFL5; RAGS; GLC1M;
Gene ID	1946
mRNA Refseq	NM_001962

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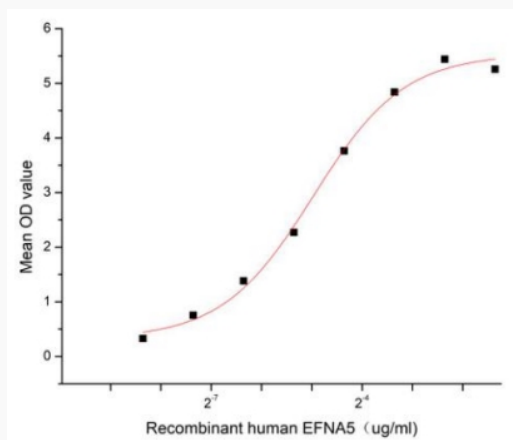
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Protein Refseq NP_001953

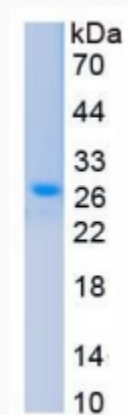
MIM 601535

UniProt ID P52803

Activity



SDS-PAGE



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