Recombinant human Ephrin-A5 protein

Catalog Number: ATGP4147

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-203aa

UniProt No.
P52803

NCBI Accession No.
NP_001953.1

Alternative Names
Ephrin-A5, EFNA5, AF1, EFL5, EPLG7, GLC1M, LERK7, RAGS, AL-1, EPH-related receptor tyrosine kinase ligand 7

PRODUCT SPECIFICATION

Molecular Weight
48.1 kDa (422aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by its binding ability in a functional ELISA with Mouse EphA3 (CAT# ATGP4148). The ED50 range ≤ 60 ng/ml.

Tag
hIgG-His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human Ephrin-A5 protein

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Description

Ephrin-A5, as known as EFNA5, is a member of the ephrin ligand family which binds the members of ephrin receptor subfamily of tyrosine kinases. This protein is expressed with the highest levels in human adult brain, heart, spleen, and ovary and human fetal brain, lung, and kidney. It is also expressed by muscle precursor cells and interacts with ephrin-A4 to restrict their migration to the correct locations during forelimb morphogenesis. Recombinant human Ephrin-A5, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

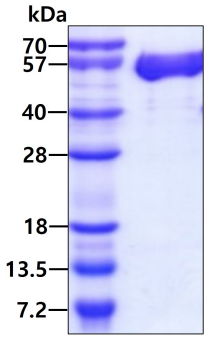
QDPGSKAVAD RYAVYWNSSN PRFQRGDYHI DVCINDYLDV FCPHYEDSVP EDKTERYVLY MVNFDGYSAC DHTSKGFKRW ECNRPHSPNG PLKFSEKFQL FTPFSLGFEF RPGREYFYIS SAIPDNGRRS CLKLKVFVRP TNSCMKTIGV HDRVFDVNDK VENSLEPADD TVHESAEPSR GEN<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

General References

Son AI., et al. (2013) Mol. Vis. 19:254-266.
Wang TH., et al. (2012) FEBS J. 279:251-263.

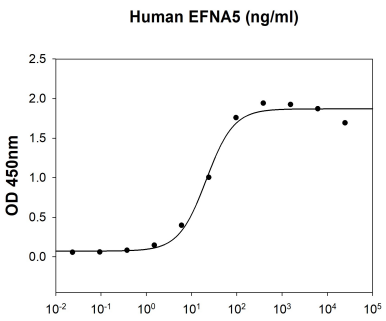
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Mouse EphA3 (CAT# ATGP4148) is coated at 2 ug/ml (100 ul/well) can bind Human EFNA5. The ED50 range ≤ 60 ng/ml.