

## Ephrin-A5 Recombinant Protein | Efna5 recombinant protein

Recombinant Rat Ephrin-A5

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA113419</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

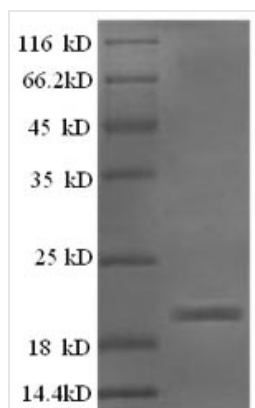
### PRODUCT SYNONYMS

Ephrin-A5; Recombinant Rat Ephrin-A5; AL-1; EPH-related receptor tyrosine kinase ligand 7; LERK-7; Efna5 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                        |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                               |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                        |
| Sequence Positions      | 21-203aa; Full Length                                                                                                                                                                                   |
| Sequence                | QDPGSKVVAD RYAVYWSSN PRFQRGDYHI DVCINDYLDV FCPHYEDSVP EDKTERYVLY MVNFDGYSAC DHTSKGFKRW ECNRPHSPNG PLKFSEKFL FTPFSLGFEF RPGREYFYIS SAIPDNGRRS CLKLKVFVRP TNSCMKTIGV RDRVFDVNDK VENSLEPADD TVHESAEPSR GEN |
| Sequence Length         | 228                                                                                                                                                                                                     |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                  |

### IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for Efna5 recombinant protein</b> | Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Induces compartmentalized signaling within a caveolae-like membrane microdomain when bound to the extracellular domain of its cognate receptor. This signaling event requires the activity of the Fyn tyrosine kinase. Activates the EPHA3 receptor to regulate cell-cell adhesion and cytoskeletal organization. With the receptor EPHA2 may regulate lens fiber cells shape and interactions and be important for lens transparency maintenance. May function actively to stimulate axon fasciculation. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion. |
| <b>References</b>                                                | Cloning of AL-1, a ligand for an Eph-related tyrosine kinase receptor involved in axon bundle formation.Winslow J.W., Moran P., Valverde J., Shih A., Yuan J.Q., Wong S.C., Tsai S.P., Goddard A., Henzel W.J., Hefti F., Beck K.D., Caras I.W.Neuron 14:973-981(1995) rLERK7, rat ligand for Eph-related receptor tyrosine kinase.Li Y.Y., McTiernan C.F., Feldman A.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## NCBI AND UNIPROT INFORMATION

|                                  |                      |
|----------------------------------|----------------------|
| NCBI GI #                        | 16758778             |
| NCBI GeneID                      | 116683               |
| NCBI Accession #                 | NP_446355.1          |
| NCBI GenBank Nucleotide #        | NM_053903.1          |
| UniProt Accession #              | P97605               |
| Molecular Weight                 | 23.2 kDa             |
| NCBI Official Full Name          | ephrin-A5            |
| NCBI Official Synonym Full Names | ephrin A5            |
| NCBI Official Symbol             | Efna5                |
| NCBI Official Synonym Symbols    | Lerk7                |
| NCBI Protein Information         | ephrin-A5            |
| UniProt Protein Name             | Ephrin-A5            |
| UniProt Gene Name                | <b>Efna5</b>         |
| UniProt Synonym Gene Names       | Eplg7; Lerk7; LERK-7 |
| UniProt Entry Name               | EFNA5_RAT            |

**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://www.aaabiotech.com/efna5-recombinant-protein-e-coli/113419>