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## Recombinant human Ephrin-A3 protein

Catalog Number: ATGP3886

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

23-214aa

#### UniProt No.

P52797

#### **NCBI Accession No.**

NP 004943.1

#### **Alternative Names**

LERK3, EPLG3, Ephrin-A3, EPH-related receptor tyrosine kinase ligand 3, EHL1 ligand, EHK1-L, EFNA3, EFL2

## PRODUCT SPECIFICATION

### **Molecular Weight**

48.7 kDa (434aa)

#### Concentration

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

#### **Formulation**

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

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

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

#### Tag

hlgG-His-Tag

## **Application**

SDS-PAGE

## **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**

#### **Description**

Ephrin-A3, also known as EFNA3, is a member of the ephrin family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. This protein activates EphA4 on hippocampal neurons to regulate dendritic spine morphology and long term potentiation. The same interaction



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induces reverse signaling through it to regulate glutamate uptake by the astrocyte and the availability of glutamate in the synapse. Astrocyte-expressed Ephrin-3 also interacts with EphA7 to inhibit the proliferation of neural progenitor cells. Recombinant human Ephrin-A3, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

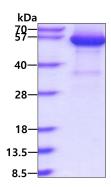
<ADP>QGPGGAL GNRHAVYWNS SNQHLRREGY TVQVNVNDYL DIYCPHYNSS GVGPGAGPGP GGGAEQYVLY MVSRNGYRTC NASQGFKRWE CNRPHAPHSP IKFSEKFQRY SAFSLGYEFH AGHEYYYIST PTHNLHWKCL RMKVFVCCAS TSHSGEKPVP TLPQFTMGPN VKINVLEDFE GENPQVPKLE KSISG<LEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH>

#### **General References**

Gomez-Maldonado L., et al. (2015 Oncogene. 34:2609-2620. Shukla A., et al. (2018) J Cell Biochem. 119:7934-7943.

## **DATA**

#### **SDS-PAGE**



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

