

Recombinant mouse EphA3 protein

Catalog Number: ATGP4148

PRODUCT INFORMATION

Expression system

HEK293

Domain

21-541aa

UniProt No.

Q8BRB1

NCBI Accession No.

NP_034270.1

Alternative Names

ephrin type-A receptor 3, ephrin type-A receptor 3 isoform1, receptor protein-tyrosine kinase, EPH-like kinase 4, tyrosine-protein kinase TYRO4, tyrosine-protein kinase receptor ETK1, Eph receptor A3, AW492086, Cek4, EK4, End3, ETK1, Hek, Hek4, Mek4, Tyro4

PRODUCT SPECIFICATION

Molecular Weight

59.5kDa (527aa)

Concentration

1mg/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 Human EFNA5 (CAT# ATGP4147).

Tag

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.

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BACKGROUND

Description

EphA3 is a protein-tyrosine kinase that belongs to the ephrin receptor subfamily. It has an extracellular region with a Cys-rich domain and two fibronectin type III repeats, and a single kinase domain. EPH and other EPH-related receptors are involved in various developmental processes, especially in the nervous system. EphA3 interacts with EFNB2 and EFNA5, and is expressed in the forebrain, retinal axons, some motor neurons in the spinal cord, and the heart during development. It regulates axonal guidance and organ formation. It is also found on some blood and solid tumor cells, and on astrocytes near injured nerve tissue. Recombinant mouse EphA3, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

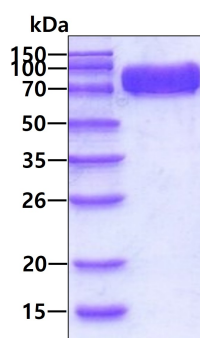
ELSPQPSNEV NLLDSKTIQG ELGWISYPSH GWEEISGVDE HYTPIRTYQV CNVMDHSQNN WLRTNWVPRN SAQKIYVELK
FTLRDCNSIP LVLGTCKETF NLYYMESDDD HGVKFREHQF TKIDTIAADE SFTQMDLGDR ILKLNTEIRE VGPVNKKGFY
LAFQDVGACV ALVSVRVYFK KCPFTVKNLA MFPDTPMDS QSLVEVRGSC VNNSKEEDPP RMYCSTEGEW LVPIGKCTCN
AGYEERGFIG QACRPGFYKA SDGAAKCAKC PPHSSTQEDG SMNCRCENNY FRAEKDPPSM ACTRPPSAPR NVISNINETS
VILDWSWPLD TGGRKDITFN IICKKCGWNV RQCEPCSPNV RFLPRQLGLT NTTVTVDLL AHTNYTFEID AVNGVSELSS
PPRQYAAVSI TTNQAAPSPV MTIKKDRTSR NSISLSWQEP EHPNGIILDY EVKYYEKQEQ ETSYTLRAR GTNVTISLK
PDTTYVFQIR ARTAAGYGTN SRKFEFETSP DSFSISGENS H<HHHHHH>

General References

- Kudo, C. et al. (2005) *J. Comp. Neurol.* 487:255-269.
- Kilpatrick, T.J. et al. (1996) *Mol. Cell. Neurosci.* 7:62-74.
- Stephen, L.J. et al. (2007) *Dev. Biol.* 302:66-79.
- Merlos-Suarez, A. and E. Batlle (2008) *Curr. Opin. Cell Biol.* 20:194-200.

DATA

SDS-PAGE



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

Biological Activity

Recombinant mouse EphA3 protein

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Mouse EphA3 (CAT# ATGP4148) is coated at 2 ug/ml (100 ul/well) can bind Human EFNA5 (CAT# ATGP4147) in a Functional ELISA assay.

