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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

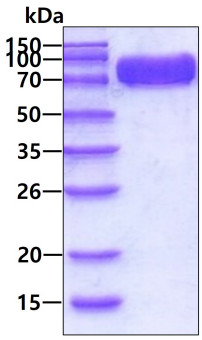
ELSPQPSNEV NLLDSKTIQG ELGWISYPSH GWEEISGVDE HYTPIRTYQV CNVMDHSQNN WLRTNWVPRN SAQKIYVELK FTLRDCNSIP LVLGTCKETF NLYYMESDDD HGVKFREHQF TKIDTIAADE SFTQMDLGDR ILKLNTEIRE VGPVNKKGFY LAFQDVGACV ALVSVRVYFK KCPFTVKNLA MFPDTVPMDS QSLVEVRGSC VNNSKEEDPP RMYCSTEGEW LVPIGKCTCN AGYEERGFIC QACRPGFYKA SDGAAKCAKC PPHSSTQEDG SMNCRCENNY FRAEKDPPSM ACTRPPSAPR NVISNINETS VILDWSWPLD TGGRKDITFN IICKKCGWNV RQCEPCSPNV RFLPRQLGLT NTTVTVTDLL AHTNYTFEID AVNGVSELSS PPRQYAAVSI TTNQAAPSPV MTIKKDRTSR NSISLSWQEP EHPNGIILDY EVKYYEKQEQ ETSYTILRAR GTNVTISSLK 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

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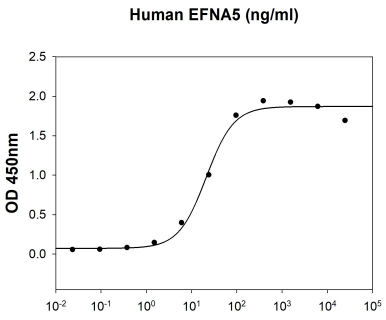

Mouse EphA3 (CAT# ATGP4148) is coated at 2 ug/ml (100 ul/well) can bind Human EFNA5 (CAT# ATGP4147) in a Functional ELISA assay.