

Recombinant Mouse EphA3 Protein, 21-541aa, C-His tagged

Cat. No. EphA3-04M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse EphA3, 21-541aa, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
ProteinLength	21-541aa
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 EPHrelated 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.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human EFNA5.
Molecular Mass	59.5 kDa (527aa)

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AA Sequence	ELSPQPSNEVNLLDSKTIQGELGWISYPSHGWEEISGVDEHYTPIRTYQVCNVMDHS QNNWLRTNWWVRNSAQKIYVELKFTLRDCNSIPLVLGTCKETFNLYYMESDDDHGV KFREHQFTKIDTIAADESFTQMDLGDRILKLNTEIREVGPVNKKGFYLAQDVGACVA LVSVRVYFKKCPFTVKNLAMFPDTPMDSQSLVEVRGSCVNNSKEEDPPRMYCST EGEWLVPIGKCTCNAGYEERGFIGQACRPGFYKASDGAACAKCPPHSSTQEDGS MNCRCENNYFRAEKDPPSMACTRPPSAPRNVISNINETSVIDLWSWPLDTGGRKDI TFNIICKKCGWNVQRQCEPCSPNVRFLPRQLGLTNTTVTVDLLAHTNYTFEIDAVNG VSELSSPPRQYAAVSITTNAAPSPVMTIKKDRTSRNSISLSWQEPEHPNGIILDYEV KYYEKQEQETSYTILRARGTNVTISLKPDTTYVFQIRARTAAGYGTNSRKFEFETSP DSFSISGENSH
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
References	1. Kudo, C. et al. (2005) J. Comp. Neurol. 487:255-269. 2. Kilpatrick, T.J. et al. (1996) Mol. Cell. Neurosci. 7:62-74. 3. Stephen, L.J. et al. (2007) Dev. Biol. 302:66-79.

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4. Merlos-Suarez, A. and E. Batlle (2008) Curr. Opin. Cell Biol. 20:194-200.

GENE INFORMATION

Gene Name	Epha3 Eph receptor A3 [Mus musculus (house mouse)]
Official Symbol	EphA3
Synonyms	EPHA3; Eph receptor A3; ephrin type-A receptor 3; EK4; EPH-like kinase 4; tyrosine-protein kinase TYRO4; tyrosine-protein kinase receptor ETK1; Hek; Cek4; ETK1; End3; Hek4; Mek4; Tyro4; AW492086
Gene ID	13837
mRNA Refseq	NM_010140
Protein Refseq	NP_034270
UniProt ID	Q8BRB1

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