Proteins

EphA3 Protein, Rat (HEK293, His)

Cat. No.: HY-P75743

Synonyms: Ephrin type-A receptor 3; EPH-like kinase 4; hEK4; EPHA3; ETK; ETK1; HEK; TYRO4

Species:

Source: HEK293

Accession: EDL75897 (E21-H541)

Gene ID:

Molecular Weight: Approximately 75-95 kDa

PROPERTIES

AA Sequence				
	ELSPQPSNEV	NLLDSKTIQG	ELGWISYPSH	GWEEISGVDE
	HYTPIRTYQV	CNVMDHSQNN	WLRTNWVPRN	SAQKIYVELK
	FTLRDCNSIP	LVLGTCKETF	NLYYMESDDD	HGVKFLEHQF
	TKIDTIAADE	SFTQMDLGDR	ILKLNTEIRE	VGPVNKKGFY
	LAFQDVGACV	ALVSVRVYFK	KCPFTVKNLA	MFPDTVPMDS
	QSLVEVRGSC	VNNSKEEDPP	RMYCSTEGEW	LVPIGKCTCN
	AGYEERGFIC	QACRPGFYKA	LDGVAKCTKC	PPHSSTQEDG
	SMNCRCENNY	FRAEKDPPSM	ACTRPPSAPR	NVISNINETS
	VILDWSWPLD	TGGRKDITFN	IICKKCGWNV	RQCEPCSPNV
	RFLPRQLGLT	$N\;T\;T\;V\;T\;V\;T\;D\;L\;L$	AHTNYTFEID	AINGVSELSS
	PPRQFAAVSI	TTNQAAPSPV	MTIKKDRTSR	NSISLSWQEP
	EHPNGIILDY	EVKYYEKQEQ	ETSYTILRAR	GTNVTISSLK
	PDTTYVFQIR	ARTAAGYGTN	SRKFEFETSP	DSFSISGENS
	Н			
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized rat EPHA3 at 10 μ g/mL (100 μ L/well) can bind rat EFN The ED ₅₀ for this effect is 155.8 ng/mL.			
Appearance	Lyophilized powder			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			
	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.			
Storage & Stability				e for longer (with carrier protein). It

DESCRIPTION

Background

The EphA3 protein, a receptor tyrosine kinase, engages in promiscuous binding to membrane-bound ephrin family ligands on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is known as forward signaling, while the pathway downstream of the ephrin ligand is termed reverse signaling. Highly promiscuous for ephrin-A ligands, EphA3 exhibits a preferential binding affinity for EFNA5. Upon activation by EFNA5, EphA3 plays a pivotal role in regulating cell-cell adhesion, cytoskeletal organization, and cell migration. Additionally, EphA3 is implicated in cardiac cell migration and differentiation, regulating the formation of the atrioventricular canal and septum during development, likely through activation by EFNA1. In the context of retinotectal mapping, EphA3 is involved in the guidance of neurons. Furthermore, EphA3 may control the segregation, though not the guidance, of motor and sensory axons during neuromuscular circuit development.

Caution: Product has not been fully validated for medical applications. For research use only.

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