

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

EphA7 Protein, Human (HEK293, His)

Cat. No.:	HY-P70842
Synonyms:	Ephrin Type-A Receptor 7; EPH Homology Kinase 3; EHK-3; EPH-Like Kinase 11; EK11; hEK11; EPHA7; EHK3; HEK11
Species:	Human
Source:	HEK293
Accession:	Q15375 (Q28-I556)
Gene ID:	2045
Molecular Weight:	Approximately 72.0 kDa

PROPERTIES

YMPQQTGLEDNYVTVMDLLAHANYTFEVEAVNGVSDLSRS QRLFAAVSITQRLFAAVSITTGQAAPSQVSGVMKERVLQRSVELSWQEPE HPNGVITEYEHPNGVITEYEIKYYEKDQRERTYSTVKTKSTSASINNLKP GTVYVFQIRAGTVYVFQIRAFTAAGYGNYSPRLDVATLEEATGKMFEATAAppearanceLyophilized powder.FormulationLyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & StabilityStored 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.ShippingRoom temperature in continental US;may vary elsewhere.	AA Sequence	QAAKEVLLLDSKAQQTELEWISSPPNGWEEISGLDENYTPIRTYQVCQVMEPNQNNWLRTNWISKGNAQRIFVELKFTLRDCNSLPGVLGTCKETFNLYYYETDYDTGRNIRENLYVKIDTIAADESFTQGDLGERKMKLNTEVREIGPLSKKGFYLAFQDVGACIALVSVKVYYKKCWSIIENLAIFPDTVTGSEFSSLVEVRGTCVSSAEEEAENAPRMHCSAEGEWLVPIGKCICKAGYQQKGDTCEPCGRGFYKSSSQDLQCSRCPTHSFSDKEGSSRCECEDGYYRAPSDPPYVACTRPPSAPQNLIFNINQTTVSLEWSPPADNGGRNDVTYRILCKRCSWEQGECVPCGSNIG
AppearanceLyophilized powder.FormulationLyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.Endotoxin Level<1 EU/µg, determined by LAL method.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & StabilityStored 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.		QRLFAAVSIT TGQAAPSQVS GVMKERVLQR SVELSWQEPE HPNGVITEYE IKYYEKDQRE RTYSTVKTKS TSASINNLKP GTVYVFQIRA FTAAGYGNYS PRLDVATLEE ATGKMFEATA VSSEQNPVI
Formulation Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 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 μg/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). Storage & Stability 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.	Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Endotoxin Level <1 EU/µg, determined by LAL method.	Appearance	Lyophilized powder.
Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/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). Storage & Stability 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.	Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage & Stability 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.	Endotoxin Level	<1 EU/µg, determined by LAL method.
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Shipping Room temperature in continental US;may vary elsewhere.	Storage & Stability	
	Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background

The EphA7 protein, a receptor tyrosine kinase, engages in promiscuous binding to GPI-anchored ephrin-A family ligands on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is termed forward signaling, while the pathway downstream of the ephrin ligand is referred to as reverse signaling. Among the GPI-anchored ephrin-A ligands, EFNA5 serves as a cognate/functional ligand for EPHA7, regulating brain development and modulating cell-cell adhesion and repulsion. EphA7 exhibits repellent activity on axons, playing a crucial role in guiding corticothalamic axons and ensuring the proper topographic mapping of retinal axons to the colliculus. Additionally, EphA7 may contribute to brain development through a caspase (CASP3)-dependent proapoptotic activity. Forward signaling through EphA7 may result in the activation of components of the ERK signaling pathway, including MAP2K1, MAP2K2, MAPK1, and MAPK3, which are phosphorylated upon EphA7 activation.

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

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