EphA7 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P76319
Synonyms:	Ephrin Type-A Receptor 7; EPH Homology Kinase 3; EHK-3; EPH-Like Kinase 11; EK11; EPHA7; HEK11
Species:	Rat
Source:	HEK293
Accession:	P54759 (M1-S539)
Gene ID:	171287
Molecular Weight:	Approximately 58.9 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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_2O.
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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	EphA7 protein is a receptor tyrosine kinase that interacts with GPI-anchored ephrin-A ligands on adjacent cells, initiating bidirectional signaling. This contact-dependent signaling, known as forward signaling, occurs downstream of the receptor, while reverse signaling occurs downstream of the ephrin ligand. Among the ephrin-A ligands, EFNA5 specifically interacts with EphA7, influencing brain development by modulating cell-cell adhesion and repulsion. EphA7 also plays a role in axon guidance, facilitating the proper mapping of corticothalamic and retinal axons. Additionally, EphA7 may contribute to brain development through a proapoptotic activity that depends on caspase (CASP3). Activation of EphA7 can lead to phosphorylation of components of the ERK signaling pathway, including MAP2K1, MAP2K2, MAPK1, and MAPK3.

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