

## EphA3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75741
Synonyms:	Ephrin type-A receptor 3; EPH-like kinase 4; hEK4; EPHA3; ETK; ETK1; HEK; TYRO4
Species:	Mouse
Source:	HEK293
Accession:	Q8BRB1 (M1-H541)
Gene ID:	13837
Molecular Weight:	Approximately 60.2 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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	<p>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.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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