

EphA3 Protein, Mouse (sf9, His-GST)

Cat. No.:	HY-P75739
Synonyms:	Ephrin type-A receptor 3; EPH-like kinase 4; hEK4; EPHA3; ETK; ETK1; HEK; TYRO4
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q8BRB1 (G569-V984)
Gene ID:	13837
Molecular Weight:	Approximately 66 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

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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