

EphB1 Protein, Mouse (sf9, His-GST)

Cat. No.:	HY-P75747
Synonyms:	Ephrin type-B receptor 1; ELK; EK6; NET; EPHB1; EPHT2; HEK6
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q8CBF3 (M591-A984)
Gene ID:	270190
Molecular Weight:	Approximately 60 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, pH 8.0, 10% gly.
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

EphB1 protein is a receptor tyrosine kinase that binds to ephrin-B ligands on neighboring cells, resulting in contact-dependent bidirectional signaling. This receptor mediates both forward signaling and reverse signaling pathways. Its ligands include EFNB1, EFNB2, and EFNB3, which play important roles in various cellular processes. During nervous system development, EphB1 regulates retinal axon guidance and interacts with EFNB2. In the adult nervous system, it works together with EFNB3 to regulate chemotaxis, proliferation, and polarity of neural progenitors. EphB1 is also involved in dendritic spine maturation, synapse formation, angiogenesis, targeted cell migration, and adhesion. Activation by EFNB1 and other ephrin-B ligands activates MAPK/ERK and JNK signaling pathways, which regulate cell migration and adhesion. Additionally, EphB1 is important for maintaining the pool of muscle stem cells (satellite cells) by promoting self-renewal and reducing activation and differentiation.

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

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