

EphB3 Protein, Human (HEK293, His)

Cat. No.:	HY-P77931
Synonyms:	EK2; ETK2; HEK2; TYRO6; EPHB3; AW456895; Cek10; MDK5; Sek4; EC 2.7.10; EC 2.7.10.1
Species:	Human
Source:	HEK293
Accession:	P54753 (G34-L559)
Gene ID:	2049
Molecular Weight:	65-68 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 0.22 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 7.5.
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 EphB3 protein is a receptor tyrosine kinase that engages in contact-dependent bidirectional signaling with adjacent cells by binding to transmembrane ephrin-B family ligands. This receptor is involved in both forward signaling, downstream of the receptor, and reverse signaling, downstream of the ephrin ligand. EphB3 shares overlapping and redundant functions with EPHB2, particularly in axon guidance during development, where it regulates the formation of interhemispheric connections in the cerebral cortex. Additionally, EphB3 contributes to the development and maturation of dendritic spines and excitatory synapses, as well as controls cell migration and positioning in various developmental processes such as angiogenesis, palate development, and thymic epithelium development. The EFNB2/EPHB3 complex also plays a role in regulating migration and adhesion of cells involved in the tubularization of the urethra and septation of the cloaca. Lastly, EphB3 is crucial for intestinal epithelium differentiation, distinguishing progenitor cells from differentiated cells within the crypt.

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

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