

Recombinant Mouse Efnb2 Protein, Myc/DDK-tagged

Cat. No. Efnb2-2756M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ephrin B2 (Efnb2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.
Molecular Mass	37.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Efnb2 ephrin B2 [Mus musculus (house mouse)]
Official Symbol	Efnb2
Synonyms	EFNB2; ephrin B2; ephrin-B2; HTK ligand; EPH-related receptor tyrosine kinase ligand 5; Epl5; ELF-2; Eplg5; Htk-L; Lerk5; LERK-5; NLERK-1
Gene ID	13642
mRNA Refseq	NM_010111
Protein Refseq	NP_034241
UniProt ID	P52800

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