

Recombinant Mouse Efnb2 Protein, His-tagged

Cat. No. Efnb2-7194M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Efnb2 protein with a His tag was expressed in insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	29-232
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.
Form	Liquid
Molecular Mass	23.4 kDa
AA Sequence	RSIVLEPIYWNSSNSKFLPGQGLVLYPQIGDKLDIICPKVDSKTVGQYEYYKQVYMVDK

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DQADRCTIKKENTPLLNCARPDQDVKFTIKFQEFSPNLWGLEFQKNKDYYIISTSNGS
 LEGLDNQEGGVCQTRAMKILMKVGDASSAGSARNHGPTRRPELEAGTNGRSSTT
 SPFVKPNPGSSTDGNSAGHSGNLLGSEVALFALEHHHHHHH

Endotoxin < 1.0 EU/μg of protein (determined by LAL method)

Purity > 90 % by SDS-PAGE

Stability Shelf life: one year from despatch.

Storage Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.

Concentration 0.5 mg/mL (determined by absorbance at 280nm)

Storage Buffer Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

GENE INFORMATION

Gene Name [Efnb2 ephrin B2 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Efnb2](#)

Synonyms Efnb2; ephrin B2; Ep; Epl; Ler; ELF-; Epl5; Htk-; LERK; NLER; ELF-2; Eplg5; Htk-L; Lerk5; LERK-5; NLERK-1; ephrin-B2; EPH-related receptor tyrosine kinase ligand 5; HTK ligand

Gene ID [13642](#)

mRNA Refseq [NM_010111](#)

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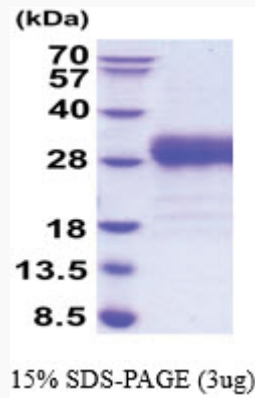
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Protein Refseq NP_034241

UniProt ID P52800

SDS-PAGE



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