

Ephrin-B1/EFNB1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73028
Synonyms:	Ephrin-B1; EFL-3; ELK-L; LERK-2; Ephrin-B1 CTF; EFNB1; EFL3; EPLG2; LERK2
Species:	Mouse
Source:	HEK293
Accession:	P52795 (M1-S229)
Gene ID:	13641
Molecular Weight:	33-38 kDa

PROPERTIES

AA Sequence	<pre> M A R P G Q R W L S K W L V A M V V L T L C R L A T P L A K N L E P V S W S S L N P K F L S G K G L V I Y P K I G D K L D I I C P R A E A G R P Y E Y Y K L Y L V R P E Q A A A C S T V L D P N V L V T C N K P H Q E I R F T I K F Q E F S P N Y M G L E F K K Y H D Y Y I T S T S N G S L E G L E N R E G G V C R T R T M K I V M K V G Q D P N A V T P E Q L T T S R P S K E S D N T V K T A T Q A P G R G S Q G D S D G K H E T V N Q E E K S G P G A G G G G S G D S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Ephrin-B1/EFNB1, a cell surface transmembrane ligand for Eph receptors, plays a pivotal role in mediating contact-dependent bidirectional signaling during neuronal, vascular, and epithelial development. With high affinity for the receptor tyrosine kinase EPHB1/ELK, it also binds to EPHB2 and EPHB3. Binding to Eph receptors on neighboring cells initiates bidirectional signaling crucial for migration, repulsion, and adhesion. Additionally, EFNB1 is involved in inducing the collapse of commissural axons/growth cones in vitro and may contribute to constraining the orientation of longitudinally projecting axons. The protein interacts with GRIP1 and GRIP2 through its PDZ-binding motif and associates with TLE1.</p>
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Moreover, the intracellular domain peptide of EFN1 interacts with ZHX2, enhancing ZHX2's transcriptional repression activity.

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

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