

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

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| Cat. No.: | HY-P70374 |
| Synonyms: | rMuEphrin-B1/EFNB1, Fc-His; Ephrin-B1; EFL-3; ELK ligand; ELK-L; EPH-related receptor tyrosine kinase ligand 2; LERK-2; EFNB1; EFL3; EPLG2; LERK2 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | P52795 (K30-S229) |
| Gene ID: | 13641 |
| Molecular Weight: | 58-80 kDa |

PROPERTIES

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| AA Sequence | <p> 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 </p> |
| Biological Activity | Measured in a cell proliferation assay using HUVEC cells. The ED ₅₀ for this effect is 27.43 ng/mL, corresponding to a specific activity is 3.65×10 ⁴ U/mg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. |
| 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| 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

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| Background | 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 |
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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. Moreover, the intracellular domain peptide of EFNB1 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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