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

Cat. No.:	HY-P73027
Synonyms:	Ephrin-B1; EFL-3; ELK-L; LERK-2; Ephrin-B1 CTF; EFNB1; EFL3; EPLG2; LERK2
Species:	Mouse
Source:	HEK293
Accession:	NP_034240.1 (K30-S229)
Gene ID:	13641
Molecular Weight:	55-75 kDa

PROPERTIES

AA Sequence	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
Biological Activity	Measured in a cell proliferation assay using HUVEC cells. The ED_{50} this effect is 7.89 ng/mL, corresponding to a specific activity is 1.267×10^5 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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

Background	Ephrin-B1 (EFNB1) protein, encoded by this gene, functions as a membrane ligand for Eph family receptors, facilitating bidirectional signaling between the cell expressing the receptor and the cell containing this protein. Critical for various developmental processes, its activity plays a key role in neuronal axon growth. The widespread expression of EFNB1, observed across multiple tissues such as the adult lung and colon, emphasizes its ubiquitous presence and underscores its

	significance in mediating essential cellular interactions during development and beyond.

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