Ephrin-B2/EFNB2 Protein, Rat (HEK293, His)

Cat. No.:	HY-P73020
Synonyms:	Ephrin-B2; LERK-5; HTK-L; EFNB2; EPLG5
Species:	Rat
Source:	HEK293
Accession:	B2B9A9/NP_001100798.1 (R29-A229)
Gene ID:	306636
Molecular Weight:	33-39 kDa

PROPERTIES

AA Sequence	R S I V L E P I Y W N S S N S K F L P G Q G L V L Y P Q I G D K L D I I C P K V D S K T V G Q Y E Y Y K V Y M V D K E Q A D R C T I K K E N T P L L N C A R P D Q D V K F T I K F Q E F S P N L W G L E F Q K N K D Y Y I I S T S N G S L E G L D N Q E G G V C Q T R A M K I L M K V G Q D A S S A G S T R N N D P T R R P E L E A G T N G R S S T T S P F V K P N P G S S T D G N S A G H S G N N L L G S E V A
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.
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-B2, also known as EFNB2, is a protein that plays a crucial role in cellular communication and tissue development. Belonging to the ephrin family, Ephrin-B2 is a transmembrane protein that acts as both a ligand and a receptor, mediating bidirectional signaling events. Its primary function is to interact with Eph receptors on neighboring cells, initiating a cascade of intracellular signals that regulate various cellular processes, including cell adhesion, migration, and tissue patterning. Ephrin-B2 is particularly implicated in angiogenesis, the formation of new blood vessels, where it governs endothelial cell behavior and influences vascular development. Additionally, it has been associated with diverse physiological and

pathological processes, such as neuronal guidance, immune response, and cancer progression. Understanding the intricate functions of Ephrin-B2 is crucial for unraveling its therapeutic potential in various medical contexts.

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