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

Cat. No.:	HY-P75230
Synonyms:	Ephrin-B2; LERK-5; HTK-L; EFNB2; EPLG5
Species:	Canine
Source:	HEK293
Accession:	B0LDS6 (I28-A229)
Gene ID:	611745
Molecular Weight:	The protein migrates as approximately 25-35 kDa under reducing SDS-PAGE due to glycosylation.

PROPERTIES

AA Sequence	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 D 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 R 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 A R H 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 S S A G H S G N N I L G S E V A L F A
Biological Activity	Immobilized canine EFNB2-His at 10 μg/mL (100 μL /well) can bind Human EphB4. The ED_{50} for this effect is 16.44 ng/mL.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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/EFNB2 protein is a member of the ephrin family, a group of proteins that play important roles in cellular signaling and communication. Ephrin-B2/EFNB2 specifically functions as a transmembrane ligand, interacting with its corresponding Eph receptor to initiate bidirectional signaling events that regulate diverse cellular processes. This protein is involved in

	various developmental processes, including tissue boundary formation, axon guidance, angiogenesis, and synaptic plasticity. Additionally, Ephrin-B2/EFNB2 has been implicated in pathological conditions such as cancer, cardiovascular diseases, and neurological disorders, making it a potential therapeutic target for intervention.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA