Ephrin A5 Protein, Canine (HEK293, Fc)

Cat. No.:	HY-P75755
Synonyms:	Ephrin-A5; AL-1; EPH-related receptor tyrosine kinase ligand 7; LERK-7; EFNA5; EPLG7
Species:	Canine
Source:	HEK293
Accession:	XP_850582 (Q21-N203)
Gene ID:	608458
Molecular Weight:	Approximately 59 kDa

PROPERTIES

AA Sequence	Q D P G S K A V A D R Y A V Y W N S S N P R F Q R G D Y H I D V C I N D Y L D V F C P H Y E D S V P E D K T E R Y V L Y M V N F D G Y S A C D H T S K G F K R W E C N R P H S P N G P L K F S E K F Q L F T P F S L G F E F R P G R E Y F Y I S S A I P D N G R R S C L K L K V F V R P T N S C M K T I G V H D R V F D V N D K V E N S L E P A D D T V H E S A E P S R G E N
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human EphA3 is immobilized at 10 µg/mL (100 µL/well) can bind Recombinant Canine Ephrin A5. The ED_{50} for this effect is 10.19 ng/mL.
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-A5/EFNA5 Protein is a member of the ephrin family, which regulates cell shape and adhesion during development, cancer, and normal function in many different tissues, playing a crucial role in vascular and epithelial development. Ephrin-A5/EFNA5 Protein is a neuron cell guidance gene, associated with neuronal development, and contributes to axon guidance and synaptic plasticity. Ephrin-A5/EFNA5 Protein is necessary for optimal fertility and complete ovulatory response to

gonadotropins, and is involved in regulating fertility[1].

Ephrin-A5/EFNA5 Protein is widely expressed in various cell types and organs during embryonic development, and regulates a wide range of early developmental processes, including tissue remodeling, bone and heart development, axon guidance, angiogenesis, and apoptosis. Ephrin-A5/EFNA5 Protein regulates apoptosis, proliferation, cell cycle progression, oocyte development, and steroidogenesis in ovarian granulosa cells (GC)[2].

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