

Ephrin-A5/EFNA5 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P76322
Synonyms:	Ephrin-A5; AL-1; EPH-related receptor tyrosine kinase ligand 7; LERK-7; EFNA5; EPLG7
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7GZC7 (Q21-N203)
Gene ID:	704351
Molecular Weight:	Approximately 27 kDa.

PROPERTIES

AA Sequence	<p>Q D P G S K T 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</p> <p>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</p> <p>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</p> <p>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</p> <p>V E N S L E P A D D T V H E S A E P S R G E N</p>
Biological Activity	Immobilized Rhesus Macaque EFNA5 at 10 µg/mL (100 µL/well) can bind Mouse EPHA3. The ED ₅₀ for this effect is 146.7 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.
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

Background	Ephrin-A5, also referred to as EFNA5, is a member of the ephrin family of proteins that play pivotal roles in mediating cell-to-cell communication and tissue development. As a transmembrane protein, Ephrin-A5 functions as both a ligand and a receptor, engaging in bidirectional signaling interactions with Eph receptors on adjacent cells. This interaction initiates a cascade of intracellular events that modulate various cellular processes, including cell adhesion, repulsion, and migration.
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Ephrin-A5 is particularly implicated in neuronal development, where it contributes to axon guidance and synaptic plasticity. Additionally, it plays a role in angiogenesis, influencing vascular development. The diverse functions of Ephrin-A5 underscore its significance in orchestrating complex cellular behaviors and highlight its involvement in various physiological and pathological processes. Gaining insights into the molecular mechanisms governed by Ephrin-A5 is crucial for understanding its potential implications in neurological disorders, developmental biology, and other medical contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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