

Ephrin-A4/EFNA4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73011
Synonyms:	Ephrin-A4; LERK-4; EFNA4; EPLG4
Species:	Mouse
Source:	HEK293
Accession:	O08542 (L26-G176)
Gene ID:	13639
Molecular Weight:	Approximately 25 kDa

PROPERTIES

AA Sequence	<pre> L R H P I Y W N S S N P R L L R G D A V V E L G F N D Y L D I F C P H Y E S P G P P E G P E T F A L Y M V D W S G Y E A C T A E G A N A F Q R W N C S M P F A P F S P V R F S E K I Q R Y T P F P L G F E F L P G E T Y Y Y I S V P T P E S P G R C L R L Q V S V C C K E S G S S H E S A H P V G S P G E S G </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse Ephrin-A4 at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse EPHA7. The ED ₅₀ for this effect is 1.214µg/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-A4 (EFNA4) is a cell surface glycosylphosphatidylinositol (GPI)-bound ligand that belongs to the Eph receptor family, a group of receptor tyrosine kinases crucial for various developmental processes, including migration, repulsion, and adhesion in neurons, vascular tissues, and epithelial cells. EFNA4 binds promiscuously to Eph receptors on adjacent cells, initiating contact-dependent bidirectional signaling into neighboring cells. This interaction is essential for orchestrating complex cellular events during development. Moreover, EFNA4 may contribute to the interaction between activated B-
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lymphocytes and dendritic cells in tonsils, suggesting its involvement in immune responses.

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

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