

Ephrin-A2/EFNA2 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P76912
Synonyms:	CEK7-ligand; CEK7-L; ELF-1; LERK-6
Species:	Rat
Source:	HEK293
Accession:	F1MA19 (R21-S183)
Gene ID:	84358
Molecular Weight:	Approximately 55 kDa.

PROPERTIES

AA Sequence	<pre> R N E D P A R A N A D R Y A V Y W N R S N P R F Q V S A V G D G G G Y T V E V S I N D Y L D I Y C P H Y G A P L P P A E R M E R Y I L Y M V N G E G H A S C D H R Q R G F K R W E C N R P A A P G G P L K F S E K F Q L F T P F S L G F E F R P G H E Y Y Y I S A T P P N L V D R P C L R L K V Y V R P T N E T L Y E A P E P I F T S </pre>
Biological Activity	Measured by its ability to inhibit proliferation of PC-3 human prostate cancer cells. The ED ₅₀ for this effect is 26.55 ng/mL, corresponding to a specific activity is 3.766×10 ⁴ units/mg.
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-A2, also known as EFNA2, is a member of the ephrin family of proteins that serves as both a ligand and a receptor, playing a crucial role in cellular communication and tissue development. As a transmembrane protein, Ephrin-A2 engages in bidirectional signaling by interacting with Eph receptors on neighboring cells, triggering intracellular cascades that regulate diverse cellular processes. Ephrin-A2 is particularly implicated in axon guidance during neuronal development, contributing
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to the precise wiring of the nervous system. Additionally, it plays a role in angiogenesis, influencing vascular development and endothelial cell behavior. The multifaceted functions of Ephrin-A2 underscore its significance in orchestrating complex cellular behaviors and highlight its involvement in various physiological and pathological processes. Understanding the molecular mechanisms controlled by Ephrin-A2 is essential for elucidating its potential implications in neurobiology, cardiovascular development, and other medical contexts.

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

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