

Ephrin-A2/EFNA2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76911
Synonyms:	CEK7-ligand; CEK7-L; ELF-1; LERK-6
Species:	Mouse
Source:	HEK293
Accession:	P52801 (M1-N184)
Gene ID:	13637
Molecular Weight:	35-40 kDa

PROPERTIES

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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	The Ephrin-A2/EFNA2 protein, a cell surface GPI-bound ligand for Eph receptors, is integral to neuronal, vascular, and epithelial development, where Eph receptors play a crucial role in migration, repulsion, and adhesion. EFNA2 binds promiscuously to Eph receptors on adjacent cells, initiating contact-dependent bidirectional signaling, with forward signaling downstream of the receptor and reverse signaling downstream of the ephrin ligand. In association with the EPHA2 receptor, EFNA2 may contribute to bone remodeling by regulating osteoclastogenesis and osteoblastogenesis. This protein also binds to the receptor tyrosine kinases EPHA3, EPHA4, and EPHA5. Furthermore, EFNA2 interacts with EPHA8, activating this receptor and potentially influencing additional cellular processes. The multifaceted interactions of EFNA2 underscore its significance in orchestrating complex signaling events that impact diverse developmental and regulatory pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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