

## EFNB2A Protein, zebrafish (HEK293, His)

Cat. No.:	HY-P77356
Synonyms:	Ephrin-B2a; efnb2
Species:	Others
Source:	HEK293
Accession:	O73874 (L25-A222)
Gene ID:	30219
Molecular Weight:	Approximately 30-40 kDa

### PROPERTIES

AA Sequence	<div> <div>L I L D S I Y W N T</div> <div>G S M E G V E Y Y K</div> <div>V K F T L K F Q E F</div> <div>Q E G G V C K T K S</div> <div>L G G K D S K S N E</div> </div> <div> <div>T N T K F V P G Q G</div> <div>L Y M V P L E Q L K</div> <div>S P N L W G L E F F</div> <div>M K I I M K V G Q N</div> <div>V L K P D A S P H G</div> </div> <div> <div>L V L Y P Q I G D K</div> <div>S C Q V T K A D T P</div> <div>R G K D Y Y I I S T</div> <div>P S D P I S P K D Y</div> <div>E D K G D G N K S S</div> </div> <div> <div>M D I V C P R V E G</div> <div>L L N C V K P D Q D</div> <div>S N G T M E G L D N</div> <div>P T S Y P P K H P D</div> <div>S V I G S E V A</div> </div>
Biological Activity	Immobilized zebrafish EFNB2A at 10 µg/mL (100 µL/well) can bind Biotinylated human EphB4. The ED <sub>50</sub> for this effect is 31.44 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 <sub>2</sub> 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	EFNB2A, a cell surface transmembrane ligand for Eph receptors, plays a crucial role in neuronal, vascular, and epithelial development by binding promiscuously to Eph receptors on adjacent cells. This interaction initiates contact-dependent bidirectional signaling into neighboring cells, with forward signaling occurring downstream of the receptor and reverse signaling downstream of the ephrin ligand. EFNB2A, together with EphB4, may hold significance in heart morphogenesis
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and angiogenesis by regulating cell adhesion and migration. The protein's binding to the receptor tyrosine kinase EphB4 highlights its involvement in these essential developmental processes.

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

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