EphB4 Protein, Human (HEK293)

Cat. No.:	HY-P73002
Synonyms:	Ephrin type-B receptor 4; EPHB4; HTK; MYK1; TYRO11
Species:	Human
Source:	HEK293
Accession:	P54760 (M1-A539)
Gene ID:	2050
Molecular Weight:	65-70 kDa

PROPERTIES

AA Sequence	M E L R V L L C W A S L A A A L E E T L L N T K L E T A D L K W V T F P Q V D G Q W E E L S G L D E E Q H S V R T Y E V C D V Q R A P G Q A H W L R T G W V P R R G A V H V Y A T L R F T M L E C L S L P R A G R S C K E T F T V F Y Y E S D A D T A T A L T P A W M E N P Y I K V D T V A A E H L T R K R P G A E A T G K V N V K T L R L G P L S K A G F Y L A F Q D Q G A C M A L L S L H L F Y K K C A Q L T V N L T R F P E T V P R E L V V P V A G S C V V D A V P A P G P S P S L Y C R E D G Q W A E Q P V T G C S C A P G F E A A E G N T K C R A C A Q G T F K P L S G E G S C Q P C P A N S H S N T I G S A V C Q C R V G Y F R A R T D P R G A P C T T P P S A P R S V V S R L N G S S L H L E W S A P L E S G G R E D L T Y A L R C R E C R P G G S C A P C G G D L T F D P G P R D L V E P W V V V R G L R P D F T Y T F E V T A L N G V S S L A T G P V P F E P V N V T T D R E V P P A V S D I R V T R S S P S S L S L A W A V P R A P S G A V L D Y E V K Y H E K G A E G P S S V R F L K T S E N R A E L R G L K R G A S Y L V Q V R A R S E A G Y G P F G Q E H H S Q T Q L D E S E G W R E Q L A
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized EphB4 Protein, Human (HEK293) at 2 μg/mL (100 μl/well) can bind human EphrinB2 with a linear range of 1-125 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 100 mM NaCl, 50 mM Tris, pH 7.5. 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	EphB4 protein, a receptor tyrosine kinase, engages in promiscuous binding to transmembrane ephrin-B family ligands located on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is termed forward signaling, while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Collaborating with its cognate ligand, EFNB2, EphB4 is intricately involved in regulating cell adhesion and migration. Moreover, EphB4 assumes a central role in heart morphogenesis, angiogenesis, and the remodeling and permeability of blood vessels. The forward signaling mediated by EPHB4 is instrumental in controlling cellular repulsion and segregation from EFNB2-expressing cells.

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