EphB4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73005
Synonyms:	Ephrin type-B receptor 4; EPHB4; HTK; MYK1; TYRO11
Species:	Mouse
Source:	HEK293
Accession:	P54761-1 (L16-A539)
Gene ID:	13846
Molecular Weight:	Approximately 75 kDa

PROPERTIES

AA Sequence	L E E T L L N T K L E T A D L K W V T Y P Q A E G Q W E E L S G L D E E Q H S V R T Y E V C D M K R P G G Q A H W L R T G W V P R R G A V H V Y A T I R F T M M E C L S L P R A S R S C K E T F T V F Y Y E S E A D T A T A H 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 I 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 S W L I T N L T Y F P E T V P R E L V V P V A G S C V A N A V P T A N P S P S L Y C R E D G Q W A E Q Q V T G C S C A P G Y E A A E S N K V C R A C G Q G T F K P Q I G D E S C L P C P A N S H S N N I G S P V C L C R I G Y Y R A R S D P R S S P C T T P P S A P R S V V H H L N G S T L R L E W S A P L E S G G R E D L T Y A V R C R E C R P G G S C L P C G G D M T F D P G P R D L V E P W V A I R G L R P D V T Y T F E V A A L N G V S T L A T G P P 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 I L S W A I 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 S W R E Q L A
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
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.
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, exhibits promiscuous binding to transmembrane ephrin-B ligands on neighboring cells, initiating contact-dependent bidirectional signaling. This leads to both forward signaling, downstream of the receptor, and reverse signaling, downstream of the ephrin ligand. Crucially, Ephb4 Protein, in conjunction with its cognate ligand EFNB2, regulates cell adhesion and migration, playing a pivotal role in heart morphogenesis, angiogenesis, blood vessel remodeling, and permeability. Notably, EPHB4-mediated forward signaling governs cellular repulsion and segregation from EFNB2-expressing cells.

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

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