EphA8 Protein, Human (HEK293, His)

Cat. No.:	HY-P70337
Synonyms:	rHuEphrin type-A receptor 8/EphA8, His; EEK; EK3; HEK3; EPH- and ELK-related kinase; EPH- and ELK-related tyrosine kinase; EPH receptor A8; EphA8; EPH-like kinase 3; ephrin type-A receptor 8; Hek3
Species:	Human
Source:	HEK293
Accession:	P29322 (E31-T542)
Gene ID:	2046
Molecular Weight:	65-80 kDa

PROPERTIES

AA Sequence	E V N L L D T S T I H G D W G W L T Y P A H G W D S I N E V D E S F Q P I H T Y Q V C N V M S P N Q N N W L R T S W V P R D G A R R V Y A E I K F T L R D C N S M P G V L G T C K E T F N L Y Y L E S D R D L G A S T Q E S Q F L K I D T I A A D E S F T G A D L G V R R L K L N T E V R S V G P L S K R G F Y L A F Q D I G A C L A I L S L R I Y Y K K C P A M V R N L A A F S E A V T G A D S S S L V E V R G Q C V R H S E E R D T P K M Y C S A E G E W L V P I G K C V C S A G Y E E R R D A C V A C E L G F Y K S A P G D Q L C A R C P P H S H S A A P A A Q A C H C D L S Y Y R A A L D P P S S A C T R P P S A P V N L I S S V N G T S V T L E W A P P L D P G G R S D I T Y N A V C R R C P W A L S R C E A C G S G T R F V P Q Q T S L V Q A S L L V A N L L A H M N Y S F W I E A V N G V S D L S P E P R R A A V V N I T T N Q A A P S Q V V V I R Q E R A G Q T S V S L L W Q E P E Q P N G I I L E Y E I K Y Y E K D K E M Q S Y S T L K A V T T R A T V S G L K P G T R Y V F Q V R A R T S A G C G R F S Q A M E V E T G K P R P R Y D T R T
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 20 mM PB, 150 mM NaCl, pH 7.4.
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. 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	The EphA8 protein, a receptor tyrosine kinase, engages in promiscuous binding to GPI-anchored ephrin-A family ligands on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is termed forward signaling, while the pathway downstream of the ephrin ligand is referred to as reverse signaling. GPI-anchored ephrin-A ligands, including EFNA2, EFNA3, and EFNA5, demonstrate the ability to activate EPHA8 through phosphorylation. EPHA8, in conjunction with EFNA5, may regulate integrin-mediated cell adhesion and migration on fibronectin substrates, as well as neurite outgrowth. In the development of the nervous system, EPHA8 also plays a crucial role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN, which promotes cell adhesion upon activation by EPHA8, and the MAP kinases, contributing to the stimulation of neurite outgrowth.

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