Proteins

Product Data Sheet

EphB2 Protein, Human (HEK293, Fc)

Cat. No.: HY-P70790

Synonyms: EPHB2 protein; EPHB2; Ephrin type-B receptor 2

Species: Human Source: HEK293

Accession: Q6NVW1 (V19-S482)

Gene ID: 2048

Molecular Weight: 95-120 kDa

PROPERTIES

AA Sequence	VEETLMDSTT ATAELGWMVH PPSGWEEVSG YDENMNTIRT YQVCNVFESS QNNWLRTKFI RRRGAHRIHV EMKFSVRDCS SIPSVPGSCK ETFNLYYYEA DFDSATKTFP NWMENPWVKV DTIAADESFS QVDLGGRVMK INTEVRSFGP VSRSGFYLAF QDYGGCMSLI AVRVFYRKCP RIIQNGAIFQ ETLSGAESTS LVAARGSCIA NAEEVDVPIK LYCNGDGEWL VPIGRCMCKA GFEAVENGTV CRGCPSGTFK ANQGDEACTH CPINSRTTSE GATNCVCRNG YYRADLDPLD MPCTTIPSAP QAVISSVNET SLMLEWTPPR DSGGREDLVY NIICKSCGSG RGACTRCGDN VQYAPRQLGL TEPRIYISDL LAHTQYTFEI QAVNGVTDQS PFSPQFASVN ITTNQAAPSA VSIMHQVSRT VDSITLSWSQ PDQPNGVILD YELQYYEKMK TQRS
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.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH $_2$ 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.

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DESCRIPTION

Background

EphB2 protein (Ephrin type-B receptor 2), a neurotrophic factor, is a member of the eph receptor tyrosine kinase. In the gut of rats, EphB2 is expressed preferentially by enteric neurons^[1]. EphB2 is also aberrantly expressed in many cancers, and plays an important role in cancer progression. Besides, EphB2 is expressed on some immunocytes, indicating the roles of EphB2 in immunity^[2].

EphB2 can bind to directly to the NMDA receptor and induces its tyrosine phosphorylation. It's reported that EphB2 is essential for neuronal connectivity and plasticity in the brain, as well as synaptic function. EphB2 mediates the structural plasticity of neurons associated with the learning of a new behavioral task^{[1][3]}. Besides, EphB2 can also interact with cells expressing ephrinB ligands, and results in EphB2 activation and phosphorylation of tyrosines in the ephrinB cytodomain^[4]. EphB2 regulates initial platelet activation in the absence of ligand binding in a contact-independent manner, and EphB2 signaling also regulates thrombus formation and clot retraction^[5].

EphB2 is an about 117-kDa transmembrane protein. Human, mouse and rat EphB2 shares more than 98% aa sequence identity.

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

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