

EphB6 Protein, Human (HEK293)

Cat. No.:	HY-P75751
Synonyms:	Ephrin type-B receptor 6; HEP; Tyrosine-protein kinase-defective receptor EPH-6; EPHB6
Species:	Human
Source:	HEK293
Accession:	O15197 (L32-S594)
Gene ID:	2051
Molecular Weight:	Approximately 72 kDa

PROPERTIES

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 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	EphB6, a kinase-defective receptor specializing in interactions with members of the ephrin-B family, serves as a binding partner for both ephrin-B1 and ephrin-B2. This receptor intricately regulates cell adhesion and migration, demonstrating a nuanced impact with both positive and negative effects upon stimulation by ephrin-B2. Particularly, EphB6 displays the ability to inhibit JNK activation and attenuate T-cell receptor-induced IL-2 secretion and CD25 expression when prompted by ephrin-B2. Noteworthy interactions include associations with CBL and EPHB1, as well as a ligand-independent interaction with FYN, unveiling the multifaceted nature of EphB6 in cellular signaling pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA