

# Recombinant Human EphB1/EPHT2 Protein (Fc Tag)(Active)



Catalog Number:PKSH032387

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

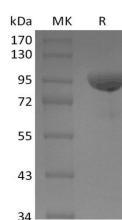
## Description

<b>Synonyms</b>	Ephrin Type-B Receptor 1; ELK; EPH Tyrosine Kinase 2; EPH-Kike Kinase 6; EK6; hEK6; Neuronally-Expressed EPH-Related Tyrosine Kinase; NET; Tyrosine-Protein Kinase Receptor EPH-2; EPHB1; ELK; EPHT2; HEK6; NET
<b>Species</b>	Human
<b>Expression Host</b>	Human Cells
<b>Sequence</b>	Met 18-Pro540
<b>Accession</b>	P54762
<b>Calculated Molecular Weight</b>	85.5 kDa
<b>Observed molecular weight</b>	85-100 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Immobilized Human EFNB1-His(Cat: PKSH032394) at 5µg/ml(100 µl/well) can bind Human EPHB1-Fc.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg as determined by the LAL method.
<b>Storage</b>	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



## Background

Ephrin Type-B Receptor 1 (EPHB1) is a single-pass type I membrane protein that belongs to the Ephrin-B family of receptor tyrosine kinases involved in the development of embryonic nervous and vascular systems. EPHB1 contains two fibronectin type-III domains, one protein kinase domain and one Sterile Alpha Motif (SAM) domain. EPHB1 is able to stimulate fibroblast motility on extracellular matrix in a kinase-dependent manner, which is also correlated with its association with Grb7, an adaptor molecule implicated in the regulation of cell migration. It binds to Ephrin-B1, Ephrin-B2 and Ephrin-B3. EPHB1 plays an important roles in diverse biological processes including nervous system

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development, angiogenesis, and neural synapsis formation and maturation and may be involved in cell-cell interactions in the nervous system.

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