

# Recombinant Human EphB2 Protein (Fc Tag)

Catalog Number:PKSH032012



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

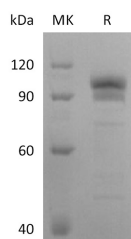
## Description

<b>Synonyms</b>	CAPB;DRT;EK5;EPHT3;ERK;Hek5;PCBC;Tyro5;EPHB2;Ephrin type-B receptor 2
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Val19-Ser482
<b>Accession</b>	Q6NVW1
<b>Calculated Molecular Weight</b>	78.5 kDa
<b>Observed molecular weight</b>	95-120 kDa
<b>Tag</b>	C-Fc

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, 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 PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Ephrin type-B receptor 2 (EPHB2) belongs to the protein kinase superfamily and Ephrin receptor subfamily. EPHB2 contains 1 Eph LBD domain; 2 fibronectin type-III domains; 1 protein kinase domain and 1 SAM domain. Ephrin receptors and their ligands; the ephrins; mediate numerous developmental processes; particularly in the nervous system. Based on their structures and sequence relationships; ephrins are divided into the ephrin-A (EFNA) class; which are anchored to the membrane by a glycosylphosphatidylinositol linkage; and the ephrin-B (EFNB) class; which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up

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the largest subgroup of the receptor tyrosine kinase (RTK) family.

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