

Recombinant Human EphB1 (C-Fc)

Catalog #	EPT073
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Ephrin Type-B Receptor 1 is
	produced by our Mammalian expression system and
	the target gene encoding Met18-Pro540 is expressed
	with a Fc tag at the C-terminus.
Accession	P54762
Synonyms	Ephrin Type-B Receptor 1; ELK; EPH Tyrosine Kinase 2;
	EPH-Like Kinase 6; EK6; hEK6; Neuronally-Expressed
	EPH; Related Tyrosine Kinase; NET; Tyrosine-Protein
	Kinase Receptor EPH-2; EPHB1; ELK; EPHT2; HEK6
Mol Mass	85.6 KDa
AP Mol Mass	85-100 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM



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RECONSTITUTION

Tris-HCl, 150mM NaCl, pH 8.0.

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized protein should be stored at < -20 ° C,
though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C
for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

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BACKGROUNDEphrin Type-B Receptor 1 (EPHB1) is a single-pass typeI membrane protein that belongs to the Ephrin-Bfamily of receptor tyrosine kinases that is involved inembryonic nervous and vascular system development.EPHB1/EPHT2containstwofibronectintype-III



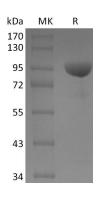
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domains, one protein kinase domain and one SAM (sterile α motif) domain. EPHB1 could stimulate fibroblast motility on extracellular matrix in a kinase-dependent manner, which also correlated with its association with Grb7, an adaptor molecule implicated 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 development, angiogenesis, and neural synapsis formation and maturation and may be involved in cell-cell interactions in the nervous system.



SDS-PAGE



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