

## 32-7682: Recombinant Human Ephrin B Receptor 1/EphB1 (ICD, C-6His)

**Gene :** EPHB1  
**Gene ID :** 2047  
**Uniprot ID :** P54762

### Description

Source: Human Cells.  
MW :48.8kD.

Recombinant Human Ephrin B Receptor 1 is produced by our Mammalian expression system and the target gene encoding Ser564-Ala984 is expressed with a 6His tag at the C-terminus. 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 that is involved in embryonic nervous and vascular system development. EPHB1/EPHT2 contains two fibronectin type-III domains, one protein kinase domain and one SAM (sterile a 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.  
**Storage condition :** Lyophilized 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.  
**Amino Acid :** MSRKRAYSKEAVYSDKLQHYSTGRGSPGMKIYIDPFTYEDPNEAVREFAKEIDVSFVKIEEVIGAGEFGEVYKGR LKLPKGKREIYVAIKTLKAGYSEKQRRDFLSEASIMGQFDHPNIIIRLEGVVTKSRPVMIIITEFMENGALDSFLRQND GQFTVIQLVGMLRGIAAGMKYLAEMNYVHRDLAARNILLNSNLVCKVSDFGLSRYLQDDTSDPTYTSSLGGKIP VRWTAPEAIAIRKFTSASDVWSYGIVMWEVMSFGERPYWDMNQDVINAIEQDYRLPPPMDCPAALHQLMLD CWQKDRNSRPRFAEIVNTLDKMIRNPASLKTATITAVPSQPLLDPSIPDFTAFTTVDDWLSAIKMOVYRDSFLT AGFTSLQLVTQMTSEDLRLRIGITLAGHQKILNSIHSRMVQISQSPTAMAVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.