

# Recombinant Human EPH Receptor B1, GST-tagged

**Cat. No.** EPHB1-1213H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant humanEPHB1 catalytic domain (aa 612-887) with GST tag. No special measures weretaken to activate this kinase.                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 612-887 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | EPHB1 is a protein that in humans is encoded by theEPHB1 gene. Ephrin receptors and their ligands,the ephrins, mediate numerous developmental processes, particularly in thenervous system. Based on their structures and sequence relationships, ephrinsare divided into the ephrin-A (EFNA) class, which are anchored to themembrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB)class, which are transmembrane proteins. |
| <b>Form</b>             | Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Weight</b> | 60.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>    | 0.49 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | ≥ 90% as determinedby SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                                                                                                          |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Activity</b>   | 645 nmole ofphosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg of totalprotein at 30°C.Activity determined at a final protein concentration of 2 µg/ml.                                                                                                           |
| <b>Storage</b>             | Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                    |
| <b>OfficialSymbol</b>      | EPHB1                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>           | EPHB1 EPH receptor B1 [ Homosapiens ]                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | EPHB1; EPH receptorB1; ELK;NET; Hek6; EPHT2; FLJ37986; ephrin type-B receptor 1; EK6; EPH-like kinase 6;OTTHUMP00000216707; OTTHUMP00000216708; eph tyrosine kinase 2; soluble EPHB1variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressedEPH-related tyrosine kinase |
| <b>Gene ID</b>             | 2047                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_004441                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_004432                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 600600                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P54762                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 3q21-q23                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Axon guidance; EPHBforward signaling; Ephrin B reverse signaling; EphrinB-EPHB pathway                                                                                                                                                                                                 |

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**Function**

ATP binding; axonguidance receptor activity; nucleotide binding; protein binding; receptoractivity; transmembrane-ephrin receptor activity

**PDBrendering based  
on 2djs.**

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