

Recombinant Human EPH Receptor B1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant humanEPHB1 catalytic domain (aa 612-887) with GST tag. No special measures weretaken to activate this kinase.
Species	Human
Source	Insect Cells
ProteinLength	612-887 a.a.
Description	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.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	60.3 kDa
Concentration	0.49 mg/ml
Purity	≥ 90% as determinedby SDS-PAGE analysis.

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Specific Activity	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.
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	EPHB1
GENE INFORMATION	
Gene Name	EPHB1 EPH receptor B1 [Homosapiens]
Synonyms	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
Gene ID	2047
mRNA Refseq	NM_004441
Protein Refseq	NP_004432
MIM	600600
UniProt ID	P54762
Chromosome Location	3q21-q23
Pathway	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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