

Recombinant Human EPH Receptor B4, His-tagged

Cat. No. EPHB4-543H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHB4 was expressed by baculovirus in <i>Sf9 insect cells</i> using an N-terminal His tag. MW=50kDa.
Species	Human
Source	Sf9 Cells
Description	EPHB4 is a member of the Eph family of receptor tyrosine kinases which play a role in regulating cell adhesion and cell movement during embryonic development. Furthermore, because tissue disorganization and abnormal cell adhesion, movement, and survival characterize the more advanced stages of cancer, the inappropriate functioning of Eph receptor could play a causal role in malignancy. EPHB4 is uniquely expressed in the vascular endothelial and endocardial cells and animal knockout studies with EPHB4 reveal a phenotype that is similar to Ephrin B2 gene knockdown. Furthermore, EPHB4 has been shown to be the major essential interaction partner of Ephrin B2 in angiogenesis.
Specific Activity	125 U/mg. One unit is defined as the amount of enzyme that will transfer 1 nmol phosphate to tyrosine substrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl ₂ , 3 mM MnCl ₂ , 1 mM DTT, 3 μM Na-orthovanadate, 0.1 mM ATP, 30 μg/ml Poly (Glu:Tyr)4:1 substrate, and 2 μg /ml recombinant EPHB4.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA,

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0.1mM PMSF, 50% glycerol and 3mM DTT.

Stability >12 months at –80°C.

GENE INFORMATION

Gene Name EPHB4 EPH receptor B4 [Homo sapiens]

Synonyms EPHB4; EPH receptor B4; HTK; MYK1; TYRO11; ephrin receptor EphB4; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; hepatoma transmembrane kinase; EC 2.7.10.1; Tyro11; Ephrin type-B receptor 4; Tyrosine-protein kinase receptor HTK; Tyrosine-protein kinase TYRO11; EPH receptor B4; Tyrosine-protein kinase receptor HTK; ephrin receptor EphB4; hepatoma transmembrane kinase

Gene ID 2050

mRNA Refseq NM_004444

Protein Refseq NP_004435

MIM 600011

UniProt ID P54760

Chromosome Location 7q22

Pathway Axon guidance

Function ATP binding; ephrin receptor activity; nucleotide binding; protein binding; receptor

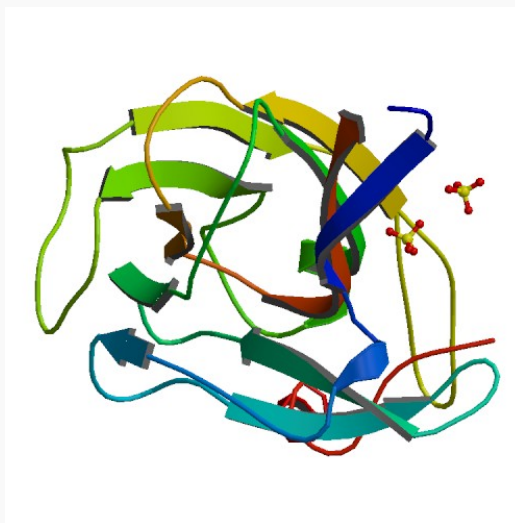
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activity; transferase activity

PDB rendering based
on 2bba.



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