Recombinant Human EPH Receptor B2, His-tagged

Cat. No. EPHB2-542H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHB2 was expressed by baculovirus in*Sf9 insect cell*susing an N-terminal His tag. MW=52kDa.
Species	Human
Source	Sf9 Cells
Description	EPHB2 is a member of the Eph family of receptor tyrosine kinases that mediate neurodevelopmental processes such as boundary formation, axon guidance, vasculogenesis, and cell migration. EPHB2 has been shown to associate with the non-receptor tyrosine kinase Abl and activated EPHB2 causes tyrosine phosphorylation of Abl and regulates its activity. EPHB2 is overexressed in a number of tumors particularly glioblastoma and this increases glioma cell migration and invasion.
Purity	>80%.
Specific Activity	21.8 pmol/min/μg. Enzyme reaction is conducted in a buffer containing 50 mM HEPES (pH7.5), 10 Mm MgCl2, 1 mM EGTA, 200 μM ATP, 0.01% Brij-35 and 2 μM substrate (Invitrogen ZLyte Peptide 1) at room temperature for 1 hour.
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, 0.1mM PMSF, 50% glycerol and 3mM DTT.

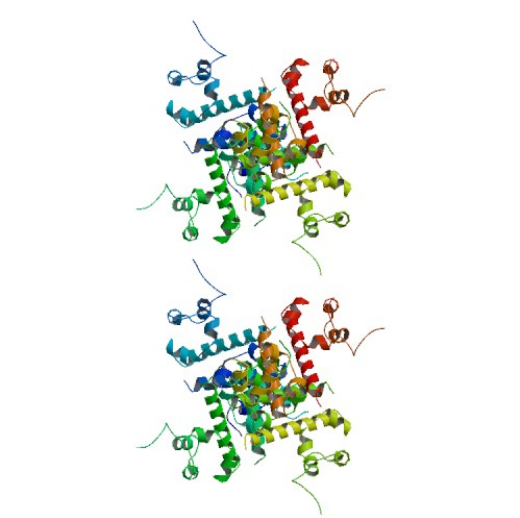
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Stability	>12 months at –80°C.

GENE INFORMATION

Gene Name	EPHB2 EPH receptor B2 [Homo sapiens]
Synonyms	EPHB2; EPH receptor B2; DRT; ERK; CAPB; Hek5; PCBC; EPHT3; Tyro5; MGC87492; EphB2; eph tyrosine kinase 3; ephrin type-B receptor 2; elk-related tyrosine kinase; protein-tyrosine kinase HEK5; EC 2.7.10.1; EPTH3; TYRO5; OTTHUMP00000002914; OTTHUMP00000002916; Receptor protein-tyrosine kinase HEK5; Renal carcinoma antigen NY-REN-47; Tyrosine-protein kinase TYRO5; Tyrosine-protein kinase receptor EPH-3; developmentally-regulated eph-related tyrosine kinase; eph tyrosine kinase 3; ephrin receptor EphB2
Gene ID	2048
mRNA Refseq	NM_004442
Protein Refseq	NP_004433
MIM	600997
UniProt ID	P29323
Chromosome Location	1p36.1-p35
Pathway	Axon guidance
Function	ATP binding; axon guidance receptor activity; nucleotide binding; receptor activity; receptor binding; transferase activity; transmembrane-ephrin receptor activity

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PDB rendering based on 1b4f.	

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