Recombinant Human EPH Receptor A2, His-tagged

Cat. No. EPHA2-541H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHA2 was expressed by baculovirus in*Sf9 insect cell*using an N-terminal His tag. MW=47kDa.
Species	Human
Source	Sf9 Cells
Description	EPHA2 is a member of the ephrin receptor subfamily of protein-tyrosine kinases that bind the ephrin-A ligand and have diverse cellular function. EPHA2 has been shown to be an oncoprotein of importance in a range of cancers. EPHA2 is overexpressed in several human cancer types and promotes malignancy through a mechanism involving RhoA-dependent destabilization of adherens junctions. EPHA2 overexpression induces a FAK-dependent increase in MMP-2 expression and invasiveness and this process that can be reversed by ligation of EPHA2.
Purity	>90%.
Specific Activity	170 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol of tyrosine substrate per minute at pH 7.4 and 30ºC. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl2, 3 mM MnCl2, 1 mM DTT, 3 μM Na-orthovanadate, 0.1 mM ATP, 30 μg/ml Poly (Glu:Tyr) 4:1 substrate, and 0.1 μg /ml recombinant EPHB2.
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	EPHA2 EPH receptor A2 [Homo sapiens]
Synonyms	EPHA2; EPH receptor A2; ECK; ARCC2; protein tyrosine kinase; soluble EPHA2 variant 1; soluble EPHA2 variant 1; epithelial cell receptor protein tyrosine kinase; ephrin receptor EphA2; EC 2.7.10.1
Gene ID	1969
mRNA Refseq	NM_004431
Protein Refseq	NP_004422
MIM	176946
UniProt ID	P29317
Chromosome Location	1p36
Pathway	Axon guidance
Function	ATP binding; ephrin receptor activity; nucleotide binding; protein binding; receptor activity; transferase activity

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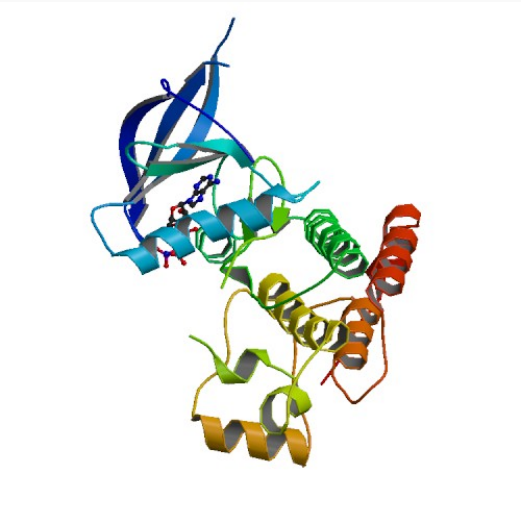
PDB rendering based on 1mqb.	

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