

Active Recombinant Human EPHB1 Protein, GST-tagged

Cat. No. EPHB1-3397H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human EPHB1 (NP_003148.2, 1 a.a. - 841 a.a.) full-length recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
Description	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members. [provided by RefSeq, Jul 2008]
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000.

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	Substrate: Blk/Lyntide. ATP: 100 µM.
Molecular Mass	73 kDa
Purity	68 % by SDS-PAGE/CBB staining.
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)

GENE INFORMATION

Gene Name	EPHB1 EPH receptor B1 [Homo sapiens]
Official Symbol	EPHB1
Synonyms	EPHB1; EPH receptor B1; EphB1 , EPHT2; ephrin type-B receptor 1; Hek6; EK6; EPH-like kinase 6; eph tyrosine kinase 2; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressed EPH-related tyrosine kinase; ELK; NET; EPHT2; FLJ37986;
Gene ID	2047
mRNA Refseq	NM_004441
Protein Refseq	NP_004432

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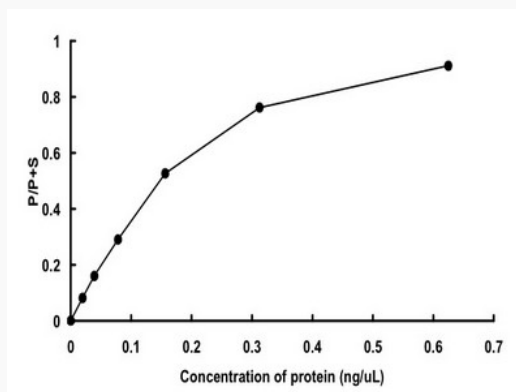
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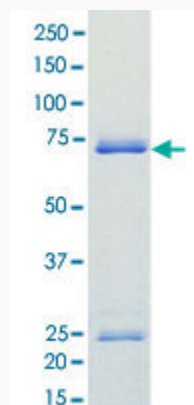
MIM 600600

UniProt ID P54762

Result of activity analysis



Quality Control Testing



Loading 1 µg protein in SDS-PAGE

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