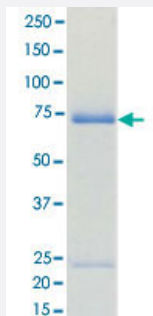


Bioactive

## EPHB4 (Human) Recombinant Protein

Catalog # P5709      Size 5 ug

### Applications



### Result of activity analysis

Result of activity analysis

### Specification

<b>Product Description</b>	Human EPHB4 (NP_004435.3, 577 a.a. - 987 a.a.) partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
<b>Host</b>	insect
<b>Theoretical MW (kDa)</b>	73
<b>Form</b>	Liquid
<b>Preparation Method</b>	Baculovirus infected insect cell (Sf21) expression system
<b>Purification</b>	Glutathione sepharose chromatography and anion exchange chromatography
<b>Purity</b>	82 % by SDS-PAGE/CBB staining.

<b>Activity</b>	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. Substrate : Blk/Lyntide. ATP: 100 µM.
<b>Quality Control Testing</b>	Loading 1 ug protein in SDS-PAGE
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Result of activity analysis Result of activity analysis

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — EPHB4

<b>Entrez GeneID</b>	<a href="#">2050</a>
<b>Protein Accession#</b>	<a href="#">NP_004435.3</a>
<b>Gene Name</b>	EPHB4
<b>Gene Alias</b>	HTK, MYK1, TYRO11
<b>Gene Description</b>	EPH receptor B4
<b>Omim ID</b>	<a href="#">600011</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	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 binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq]

**Other Designations**

ephrin receptor EphB4|hepatoma transmembrane kinase|soluble EPHB4 variant 1|soluble EPHB4 variant 2|soluble EPHB4 variant 3

**Pathway**

- [Axon guidance](#)

**Disease**

- [Intracranial Arteriovenous Malformations](#)
- [Intracranial Hemorrhages](#)