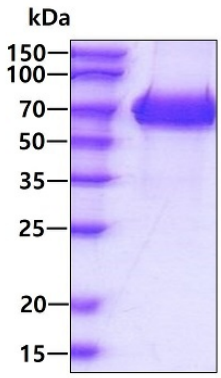
Bioactive HuPro®

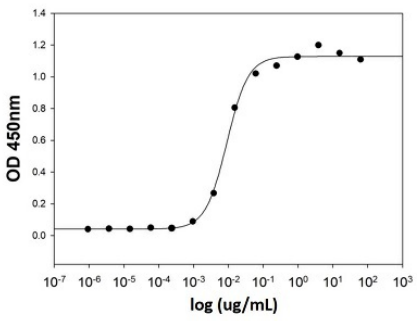
# EPHB1 (Human) Recombinant Protein

Catalog # P7868 Size 500 ug

## Applications




SDS-PAGE analysis of EPHB1 (Human) Recombinant Protein.




### Result of activity analysis

Result of activity analysis

## Specification

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| **Product Description** | Human EPHB1 (P54762, 18 a.a. - 540 a.a.) partial recombinant protein with His tag expressed in HEK293 cells. |

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|---|---|
| **Sequence** | MEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQVCNVFEPNQNNWLLTTFINRRGA HRIYTEMRFTVRDCSSLPNVPGSCKETFNLYYYETDSVIATKKSAFWSEAPYLKVDTIAADESFSQ VDFGGRLMKVNTEVRSFGPLTRNGFYLAFQDYGACMSLLSVRVFFKKCPSIVQNFAVFPETMTG AESTSLVIARGTCIPNAEEVDVPIKLYCNGDGEWMVPIGRCTCKPGYEPENSVACKACPAGTFKA SQEAEGCSHCPSNSRSPAEASPICTCRTGYYRADFDPPEVACTSVPSGPRNVISIVNETSIILEWH PPRETGGRDDVTYNIICKKCRADRRSCSRCDDNVEFVPRQLGLTECRVSISSLWAHTPYTFDIQAI NGVSSKSPFPPQHVSVNITTNQAAPSTVPIMHQVSATMRSITLSWPQPEQPNGIILDYEIRYYEKEH NEFNSSMARSQTNTARIDGLRPGMVYVVQVRARTVAGYGKFSGKMCFQTLTDDDYKSELREQLP |
| **Host** | Human |
| **Theoretical MW (kDa)** | 59.2 |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK 293) expression system |
| **Purity** | > 95% as analyzed by SDS-PAGE. |
| **Endotoxin Level** | < 1 EU/ug of protein by the LAL method. |
| **Activity** | Measured by the binding ability in a functional ELISA with Human EFNB1. |
| **Quality Control Testing** | SDS-PAGE Stained with Coomassie Blue.<br>SDS-PAGE analysis of EPHB1 (Human) Recombinant Protein. |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (10% glycerol) |
| **Storage Instruction** | Store at 4°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>Result of activity analysis |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — EPHB1

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|---|---|
| **Entrez GeneID** | 2047 |
| **Protein Accession#** | P54762 |
| **Gene Name** | EPHB1 |
| **Gene Alias** | ELK, EPHT2, FLJ37986, Hek6, NET |
| **Gene Description** | EPH receptor B1 |
| **Omim ID** | 600600 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 |
| **Other Designations** | eph tyrosine kinase 2\|ephrin receptor EphB1\|soluble EPHB1 variant 1 |

## Pathway

- Axon guidance

## Disease

- Carcinoma
- Depressive Disorder
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Parkinson disease
- Tobacco Use Disorder