

Recombinant Human EPHB4 Protein, His-tagged

Cat. No. EPHB4-003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHB4 protein(16-539aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	16-539 a.a.
Description	EPHB4, also known ephrin type-B receptor 4, is a member of the Eph receptor tyrosine kinase family. It binds transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. This protein plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. And the signaling of this protein controls cellular repulsion and segregation form EFNB2-expressing cells. And it also plays a role in postnatal blood vessel remodeling, morphogenesis and permeability and is thus important in the context of tumor angiogenesis.
Form	Liquid
Molecular Mass	58.1 kDa (532aa)
AA Sequence	LEETLLNTKLETADLKWVTFPQVDGQWEELSGLDDEEQHSVRTYEVCQVQRAPGQA HWLRTGWVPRRGAVHVVATLRFTMLECLSLPRAGRSCKETFTVFYYESDADTATAL

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TPAWMENPYIKVDTVAAEHLTRKRPGAETGKVNKTLRLGPLSKAGFYLAFAQDQG
 ACMALLSLHLFYKKCAQLTVNLTRFPETVPRELVPVAGSCVVDVAVPAPGSPSPSLYC
 REDGQWAEQPVGTGCSCAPGFEEAEGNTKCRACAQGTGFKPLSGEGSCQPCPANS
 HNTIGSAVCQCRVGYFRARTDPRGAPCTTPPSAPRSVVSRLNGSSLHLEWSAPLES
 GGREDLTALRCRECRPGGSCAPCGDLTFDPGPRDLVEPWVVVRGLRPDFTYTF
 EVTALNGVSSLATGPVPFEPVNVTTDREVPPAVSDIRVTRSSPSSLAWAVPRAPS
 GAVLDYEVKYHEKGAEGPSSVRFLKTSENRAELRGLKRGASYLVQVRARSEAGYG
 PFGQEHHSQTQLDESEGWREQLAVEHHHHHH

N-terminal Sequence Analysis

Leu 16

Endotoxin

< 1.0 EU per 1µg of protein (determined by LAL method)

Purity

> 90% by SDS-PAGE

Notes

For research use only. This product is not intended or approved for human, diagnostics or veterin.

Storage

Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade.
 Avoid repeated freezing and thawing cycles.

Concentration

0.25 mg/mL (determined by Absorbance at 280nm)

Storage Buffer

In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

GENE INFORMATION

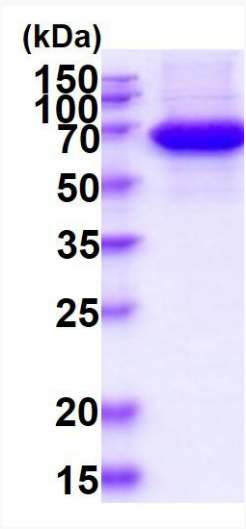
Gene Name

EPHB4 EPH receptor B4 [Homo sapiens (human)]

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Official Symbol	EPHB4
Synonyms	EPHB4; HFASD; HTK; MYK1; TYRO11; Ephrin type-B receptor 4; ephrin type-B receptor 4; ephrin receptor EphB4; hepatoma transmembrane kinase; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; tyrosine-protein kinase TYRO11; tyrosine-protein kinase receptor HTK; EC 2.7.10.1
Gene ID	2050
mRNA Refseq	NM_004444
Protein Refseq	NP_004435
MIM	600011
UniProt ID	P54760
SDS-PAGE	 15% SDS-PAGE (3μg)



50-70 kDa (SDS-PAGE under reducing conditions.)

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