

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	LEETLLNTKLETADLKWVTFPQVDGQWEELSGLDDEEQHSVRTYEVC DVQRAPGQA HWLRTGWVPRRGAVHVVATLRFTMLECLSLPRAGRSCKETFTVFYYESDADTATAL

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TPAWMENPYIKVDTVAAEHLTRKRPGAETGKVNKTLRLGPLSKAGFYLAHQDQG
 ACMALLSLHLFYKKCAQLTVNLTRFPETVPRELVPVAGSCVVDVAVPAPGSPSLYC
 REDGQWAEQPVTCSCAPGFEEAEGNTKCRACAQGTFFKPLSGEGSCQPCPANS
 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

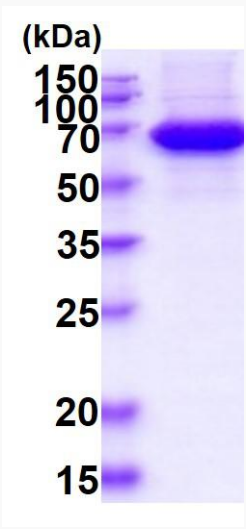
Gene Name

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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