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**Product Data Sheet**


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Product Name: EPHB2 Human  
 Cat. No.: GP23408  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EPHB2; CAPB; DRT; EK5; EPHT3; ERK; Hek5; PCBC; Tyro5; Developmentally-regulatedEph-related tyrosine kinase; ELK-related tyrosine kinase; EPH tyrosine kinase3; EPH-like kinase 5; hEK5; Renal carcinoma antigen NY-REN-47; Tyrosine-proteinkinase TYRO5; Tyrosine-protein kinase receptor EPH-3.		
Amino Acid Sequence	VEETLMDSTT ATAELGWMVH PPSGWEEVSG YDENMNTIRT YQVCNVFESSQNNWLRTKFI RRRGAHRIHV EMKFSVRDCS SIPSVPGSCK ETFNLYYYEA DFDSATKTFP NWMENPWVKVDTIAADESFS QVDLGGRVMK INTEVRSFGP VSRSGFYLA F QDYGGCMSLI AVRVFYRKCP RIIQNGAIFQETLSGAESTS LVAARGSCIA NAEEDVPIK LYCNGDGEWL VPIGRCMCKA GFEAVENGTV CRGCPSGTFKANQGDEACTH CPINSRTTSE GATNCVCRNG YYRADLDPLD MPCTTIPSAP QAVISSVNET SLMLEWTPPRDSGGREDLVY NIICKSCGSG RGACTRCGDN VQYAPRQLGL TEPRIYISDL LAHTQYTFEI QAVNGVTDQSPFSPQFASVN ITTNQAAPSA VSIMHQVSRT VDSITLSWSQ PDQPNGVILD YELQYYEKEL SEYNATAIKSPTNTVTVQGL KAGAIYVFQV RARTVAGYGR YSGKMYFQTM TEAEYQTSIQ EKLPLEHHH HHH.		
Formulation	EPHB2 protein solution (0.5mg/ml) containing PhosphateBuffered Saline (pH 7.4), 1mM DTT and 20% glycerol.		

**Introduction**

EPHReceptor B2 (EPHB2) is a part of the transmembrane Eph receptor tyrosine kinasefamily (RTKs) which binds proteins of the Ephrin family on adjacent cells. Theinteraction leads to contact-dependent bidirectional signaling into neighboringcells. Hippocampal neurons can release vesicles containing full lengthEPHB2, and these are

**Caution: Product has not been fully validated for medical applications. For research use only.**

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taken up by neighboring glial cells. EPHB2 takes part in the guidance of commissural axons through the embryonic midline and regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

EPHB2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 533 amino acids (19-543a.a) and having a molecular mass of 59.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). EPHB2 is fused to a 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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