

## 32-13215: EPHB2 Human

**Alternative Name :** EPHB2, CAPB, DRT, EK5, EPHT3, ERK, Hek5, PCBC, Tyro5, Developmentally-regulated Eph-related tyrosine kinase, ELK-related tyrosine kinase, EPH tyrosine kinase 3, EPH-like kinase 5, hEK5, Renal carcinoma antigen NY-REN-47, Tyrosine-protein kinase TYRO5, Tyrosine-protein kinase receptor EPH-3.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

EPH Receptor B2 (EPHB2) is a part of the transmembrane Eph receptor tyrosine kinase family (RTKs) which binds proteins of the Ephrin family on adjacent cells. The interaction leads to contact-dependent bidirectional signaling into neighboring cells. Hippocampal neurons can release vesicles containing full length EPHB2, and these are 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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** EPHB2 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4), 1mM DTT and 20% glycerol.

**Storage condition :** 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.

**Amino Acid :** VEETLMDSTT ATAELGWMVH PPSGWEEVSG YDENMNTIRT YQVCNVFESS QNNWLRTKFI  
RRRGAHRIHV EMKFSVRDCS SIPSVPGSCK ETFNLYYYEA DFDSATKTFP NWMENPWVKV  
DTIAADESFS QVDLGGRVMK INTEVRSFGP VSRSGFYLAQ QDYGGCMSLI AVRVFYRKCP  
RIIQNGAIFQ ETLSGAESTS LVAARGSCIA NAEEDVDPIK LYCNGDGEWL VPIGRCMCKA  
GFEAVENGTV CRGCPSGTFK ANQGDEACTH CPINSRTTSE GATNCVCRNG YYRADLDPLD  
MPCTTIPSAP QAVISSVNET SLMLEWTPPR DSGGREDLVY NIICKSCGSG RGACTRCGDN  
VQYAPRQLGL TEPRIYISDL LAHTQYTFEI QAVNGVTDQS PFSPQFASVN ITTNQAAPSA  
VSIHQVSRT VDSITLSWSQ PDQPNGVILD YELQYYEKEL SEYNATAIKS PTNTVTVQGL  
KAGAIYVFQV RARTVAGYGR YSGKMYFQTM TEAEYQTSIQ EKLPLLEHHH HHH.