

# Human CellExp™ EPHB4, human recombinant

**CATALOG #:** 7451-20 20 µg  
7451-100 100 µg

**ALTERNATE NAMES:** EphB4, HTK, MYK1, TYRO11, Ephrin-type-B-receptor-4.

**SOURCE:** HEK 293 cells (Glu 17 – Ala 539)

**PURITY:** ≥ 97% by SDS-PAGE gel

**MOL. WEIGHT:** This protein contains C-terminal polyhistidine tag and has a calculated MW of 57.8 kDa. As a result of glycosylation, DTT-reduced protein migrates as 65 - 70 kDa polypeptide in SDS-PAGE.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

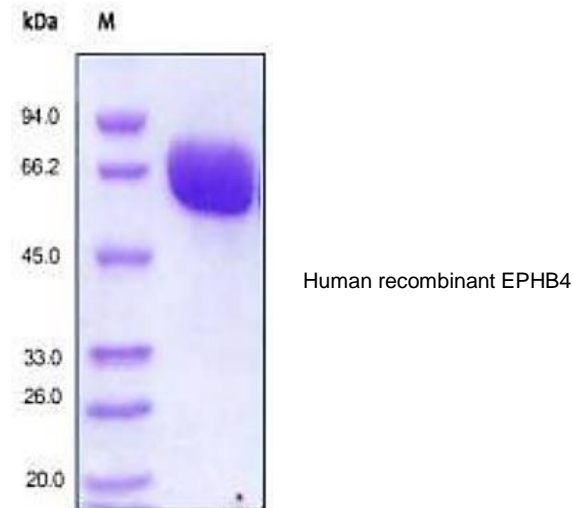
**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**DESCRIPTION:** Ephrin type-B receptor 4 (EPHB4) is also known as HTK, MYK1 and TYRO11, is a member of Eph family. 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 EPHB4 binds to Ephrin-B2 and plays an essential role in vascular development. EPHB4 and its ligand ephrin-B2 are specifically expressed on venous and arterial endothelial cells, respectively, and play an essential role in vascular development via bidirectional signals. The forward EPHB4 signaling inhibits cell adhesion, chemotaxis, angiogenesis and tumor growth. In

that aberrant expression of EPHB4 is associated with prostate cancer and highly malignant breast cancers, accordingly, EPHB4 has potential application as a therapeutic candidate.

**BIOLOGICAL ACTIVITY:** Measured by its binding ability in a functional ELISA. Immobilized rhEPHB4 at 2 µg/ml (100 µl/well) can bind human EphrinB2 with a linear range of 0.8 - 85 ng/ml.



## RELATED PRODUCTS:

- NVP-BHG712 (Cat. No. 2464-5, -25)

**FOR RESEARCH USE ONLY! Not to be used in humans.**