

RP01209

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Recombinant Human EphB4/HTK Protein

Catalog No.: RP01209 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2050	P54760

Tags

C-hFc&His

Synonyms

EPHB4;HFASD;HTK;MYK1;TYRO11

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. 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 this gene binds to ephrin-B2 and plays an essential role in vascular development.

Basic Information

Description

Recombinant Human EphB4/HTK Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Ala 539) of human EphB4/HTK (Accession #NP_004435.3) fused with a Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EFNB2 at 0.5 μg/mL (100 μL/well) can bind Human EPHB4 with a linear range of 6-400 pg/mL.

Storage

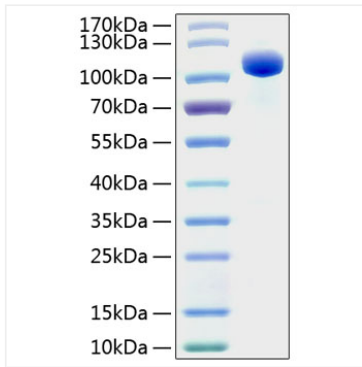
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

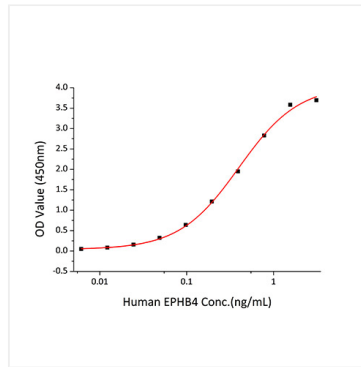


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Validation Data



Active Recombinant Human EphB4/HTK Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 105-115 kDa.



Immobilized Human EFNB2 at 0.5 μ g/mL (100 μ L/well) can bind Human EPHB4 with a linear range of 6-400pg/mL.