Recombinant Human EPHB2 Protein

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Catalog No.: RP02657 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2048 P29323-1

Tags

C-His

Synonyms

DRT; ERK; HEK5; TYRO5; CAPB; EK5; EPHT3; PCBC; Cek5; EphB2; EPHT3MGC87492; Nuk; Qek2; Sek3

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

59.2 kDa 65-75 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Reconstitution

Centrifuge the tube 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

EphB2, a receptor tyrosine kinase for ephrin ligands, is overexpressed in various cancers and plays an important role in tumor progression. EPHB2 promotes endothelial-mesenchymal transition (EMT) and elicits associated pathologic characteristics of glioblastoma multiforme (GBM) such as invasion and migration. EPHB2 is epigenetically overexpressed in hypoxia, a condition highly prevalent in malignancy. Furthermore, HIF-2 α is required for EPHB2 stabilization by hypoxia.

Basic Information

Description

Recombinant Human EPHB2 Protein is expressed from Expi293 with His tag at the Cterminal.∏It contains Val19-Leu543.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

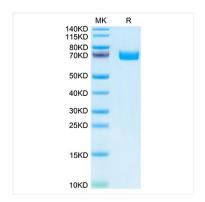
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

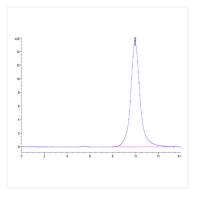
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

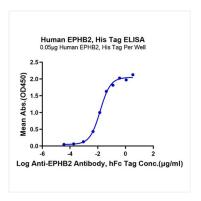
Validation Data



Recombinant Human EPHB2 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human EPHB2 is greater than 95% as determined by SEC-HPLC.



Immobilized Human EPHB2, His Tag at $0.5\mu g/ml$ (100 μ I/Well) on the plate. Dose response curve for Anti-EPHB2 Antibody, hFc Tag with the EC $_{50}$ of 14.9ng/ml determined by ELISA.