

Recombinant Human EphA3 Protein

Catalog No.: RP00186 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2042	P29320

Tags

C-hFc&His

Synonyms

EK4;ETK;HEK;ETK1;HEK4;TYRO4;EPA3

Product Information

Source	Purification
HEK293 cells	> 95% 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.

Contact

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Background

EphA3, also known as Cek4, Mek4, Hek, Tyro4, and Hek4, is a 135 kDa glycosylated member of the transmembrane Eph receptor tyrosine kinase family. EphA3 is expressed in the developing forebrain, retinal axons, some spinal cord motor neurons, and the heart where it plays an important role in axonal repulsion and organ morphogenesis. It is upregulated on some hematopoietic and solid tumor cells and on astrocytes surrounding injured nervous tissue. EphA3 ligation inhibits cellular adhesion to fibronectin as well as cellular migration. Transmembrane EphA3 associates in cis with ADAM10 which then promotes the cleavage in trans of Ephrin-A5. It also associates in cis with Ephrin-A5 on retinal axons, thereby preventing the activation of EphA3 by Ephrin-A.

Basic Information

Description

Recombinant Human EphA3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Gln541) of human EphA3 (Accession #NP_005224.2) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EFNA5 at 0.5μg/mL (100 μL/well) can bind Human EPHA3 with a linear range of 0.01-3.9 ng/mL.

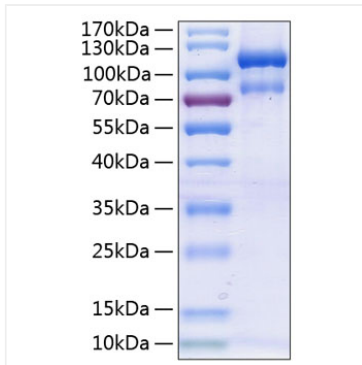
Storage

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

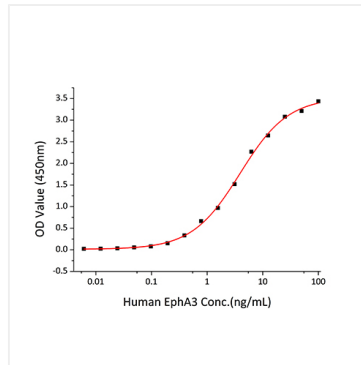
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human EphA3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-110 kDa.



Immobilized Human EFNA5 at 0.5 μ g/mL (100 μ L/well) can bind Human EPHA3 with a linear range of 0.01-3.9 ng/mL.