

Recombinant

Background

The type 1 IGF receptor (IGF1R) is a transmembrane tyrosine kinase that is frequently overexpressed by tumours, and mediates proliferation and apoptosis protection. IGF signalling also influences hypoxia signalling, protease secretion, tumour cell motility and adhesion, and thus can affect the propensity for invasion and metastasis. Therefore, the IGF1R is now an attractive anti-cancer treatment target.

Basic Information

Biotinylated Recombinant Human IGF1R/CD221 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Met1-Asn932) of Human IGF1R fused with a His tag and Avi tag at the C-terminal.

Bio-Activity

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.

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

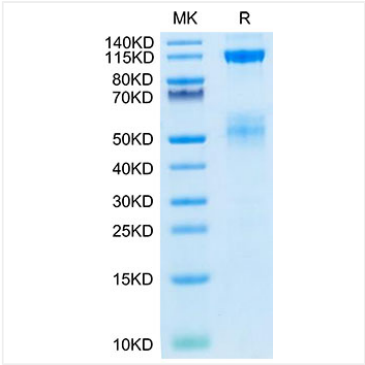
Contact

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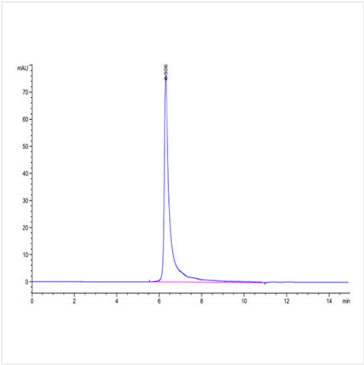
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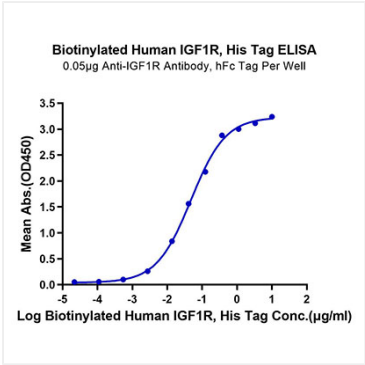
Validation Data



Biotinylated Recombinant Human IGF1R/CD221 Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



The purity of Biotinylated Human IGF1R is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-IGF1R Antibody at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IGF1R, His Tag with the EC₅₀ of 48.0ng/ml determined by ELISA.