

Human IGF1R/CD221 Protein

Cat. No. IGF-HM11R

Description

Source	Recombinant Human IGF1R/CD221 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Glu31-Asn932.
Accession	P08069
Molecular Weight	The protein has a predicted MW of 80.4 kDa (alpha subunit) and 24.1 kDa (beta subunit). Due to the furin cleavage site and glycosylation, the protein migrates to 110-130 kDa and 45-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

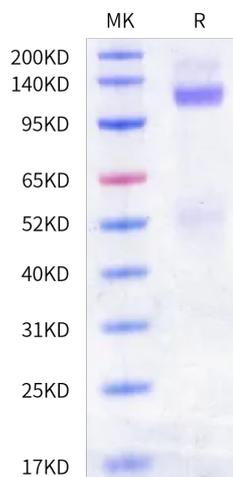
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

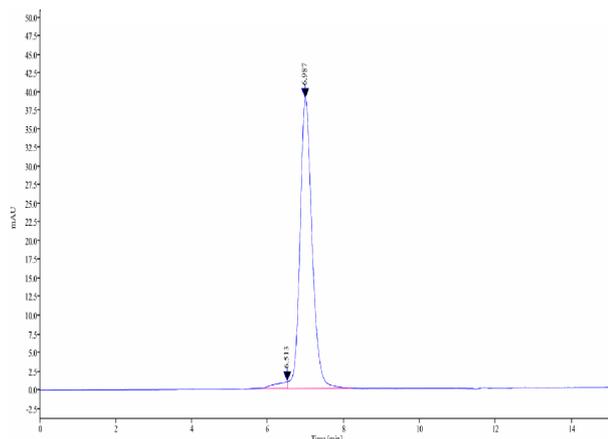
Assay Data

Bis-Tris PAGE



Human IGF1R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

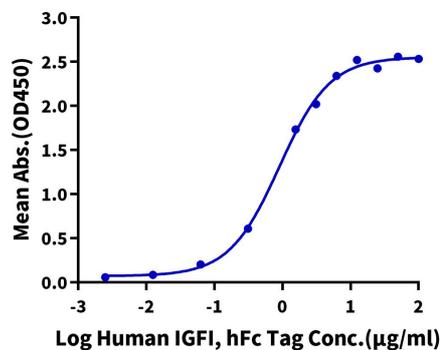
SEC-HPLC



The purity of Human IGF1R is greater than 90% as determined by SEC-HPLC.

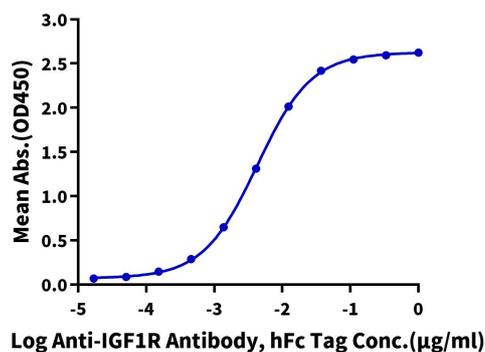
Assay Data

ELISA Data

Human IGF1R, His Tag ELISA0.5 μ g Human IGF1R, His Tag Per Well

Immobilized Human IGF1R, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IGF1, hFc Tag (Cat. IGF-HM201) with the EC50 of 0.90 μ g/ml determined by ELISA.

ELISA Data

Human IGF1R, His Tag ELISA0.05 μ g Human IGF1R, His Tag Per Well

Immobilized Human IGF1R, His Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-IGF1R Antibody, hFc Tag with the EC50 of 4.3ng/ml determined by ELISA.