Mouse IGF1R/CD221 Protein, Ultra Low Endotoxin

Cat. No. IGF-MM41R-UL

Description

Source	Recombinant Mouse IGF1R/CD221 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Glu31-His936.
Accession	Q60751
Molecular Weight	The protein has a predicted MW of 80.72 kDa (alpha subunit) and 23.0 kDa (beta subunit). Due to furin cleavage and glycosylation, the protein migrates to 110-140 kDa(alpha subunit) and 50-65 kDa(beta subunit) based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

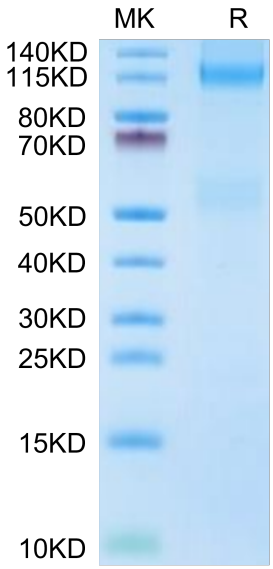
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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



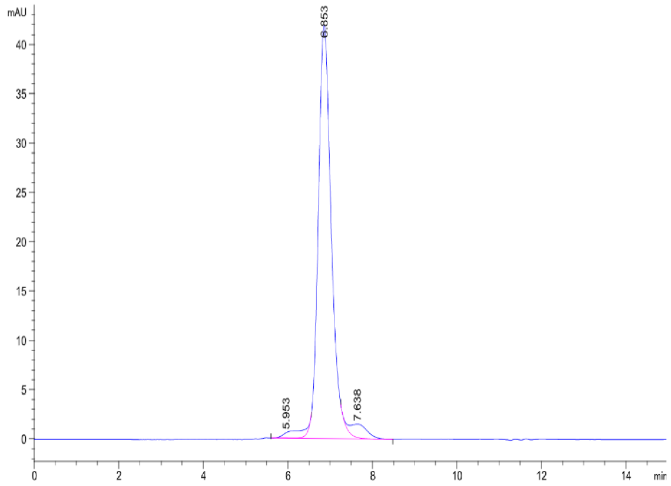
Mouse IGF1R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Mouse IGF1R/CD221 Protein, Ultra Low Endotoxin

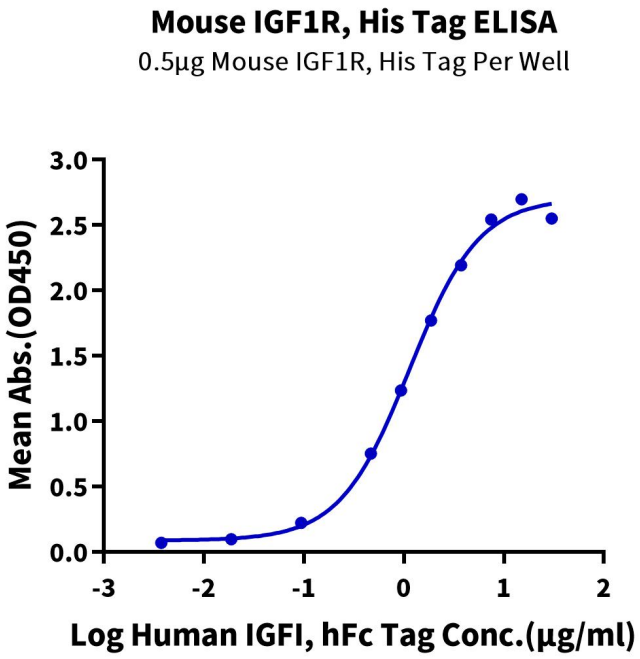
Cat. No. IGF-MM41R-UL

Assay Data



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

ELISA Data



Immobilized Mouse IGF1R, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Human IGFI, hFc Tag with the EC50 of 1.14μg/ml determined by ELISA (QC Test).