Datasheet for ABIN7274863

# IGF1R Protein (AA 31-932) (His-Avi Tag,Biotin)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | IGF1R |
| Protein Characteristics: | AA 31-932 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IGF1R protein is labelled with His-Avi Tag,Biotin. |

## Product Details

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| Purpose: | Biotinylated Human IGF1R/CD221 Protein |
| Sequence: | Glu31-Asn932 |
| Characteristics: | Recombinant Biotinylated Human IGF1R/CD221 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Glu31-Asn932. |
| Purity: | > 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1EU per µg by the LAL method. |
| Biological Activity Comment: | 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. See testing image for detail. |

## Target Details

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| Target: | IGF1R |
| Alternative Name: | IGF1R (IGF1R Products) |
| 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. |
| Molecular Weight: | 105.8 kDa (alpha subunit) and 23 kDa (beta subunit). Due to glycosylation, the protein migrates to 110-120 kDa (alpha subunit) and 52-55 kDa (beta subunit) based on Tris-Bis PAGE result. |
| UniProt: | P08069 |
| Pathways: | RTK Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Autophagy |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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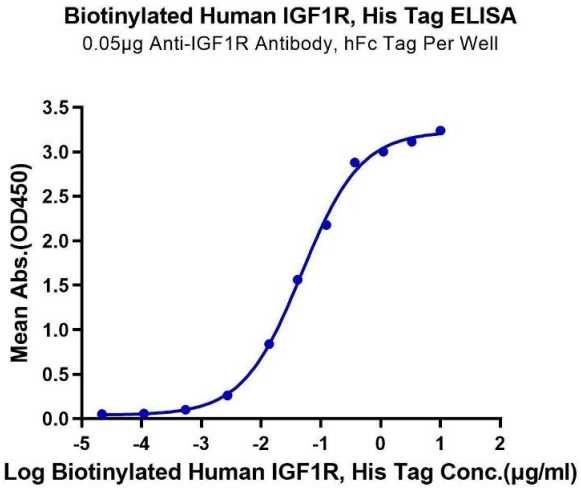
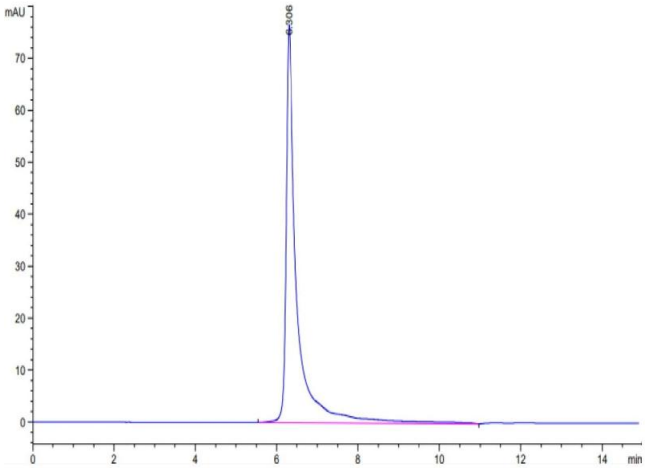
| Format: | Lyophilized |
| Reconstitution: | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water. |
| Buffer: | Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | -20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Expiry Date: | 12 months |



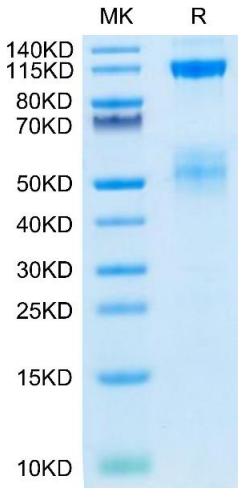

## ELISA

**Image 1.** Immobilized Anti-IGF1R Antibody at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human IGF1R, His Tag with the EC50 of 48.0 ng/mL determined by ELISA.




## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Biotinylated Human IGF1R is greater than 95 % as determined by SEC-HPLC.




## SDS-PAGE

**Image 3.** Biotinylated Human IGF1R on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .