

Active Recombinant Rat IGF1R protein, His-tagged

Cat. No. IGF1R-0287R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IGF1R protein(Glu31-His936), fused with His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	31-936 a.a.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Rat IGF-I R, His Tag at 5 µg/mL (100 µL/well) can bind Human IGF-I, Fc Tag with a linear range of 5-39 ng/mL.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. This protein contains a furin convertase cleavage site, 738-RRRR-741, and will be partially processed into N (α chain) and C-terminal fragment (partial β chain) with calculated MW of 81.3 kDa and 24.2 kDa respectively. The protein migrates as 45-50 kDa (partial β chain), 96-115 kDa (α chain) and 120 kDa (α chain & partial β chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Glu31-His936
Endotoxin	Less than 1.0 EU per

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	µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Igf1r insulin-like growth factor 1 receptor [Rattus norvegicus]
Official Symbol	IGF1R
Synonyms	IGF1R; insulin-like growth factor 1 receptor; IGF-I receptor; insulin-like growth factor I receptor; JTK13; IGFI RC;
Gene ID	25718
mRNA Refseq	NM_052807
Protein Refseq	NP_434694

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