

Active Recombinant Rat IGF1R protein, His-tagged

Cat. No. IGF1R-393R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IGF1R protein (Glu31-His936), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Glu 31 - His 936
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 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.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.

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Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade 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 [Homo sapiens]
Official Symbol	IGF1R
Synonyms	IGF1R; insulin-like growth factor 1 receptor; CD221; IGFI; IGFR; JTK13; MGC18216; IGF-I receptor; soluble IGF1R variant 1; soluble IGF1R variant 2; insulin-like growth factor I receptor; MGC142170; MGC142172;
Gene ID	3480
mRNA Refseq	NM_000875
Protein Refseq	NP_000866
MIM	147370
UniProt ID	P08069

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