

Active Recombinant Mouse Igf1 protein, His-GST-tagged

Cat. No. Igf1-1655M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Igf1 protein(Q8CAR0)(49~118 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	49-118 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Insulin-like growth factor 1 (IGF1), also called somatomedin C is a hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. A synthetic analog of IGF1, mecasermin, is used for the treatment of growth failure. Besides, Insulin Like Growth Factor Binding Protein 3 (IGFBP3) has been identified as an interactor of IGF1, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse IGF1 and recombinant rat IGFBP3. Briefly, IGF1 were diluted serially in PBS, with 0.01% BSA (pH7.4). Duplicate samples of 100 µl were then transferred to IGFBP3-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IGF1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at

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37°C. Finally, add 50 µ stop solution to the wells and read at 450 nm immediately. The binding activity of IGF1 and IGFBP3 was shown, and this effect was in a dose dependent manner, the EC50 was 1.06 ug/ml.

Molecular Mass	37.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

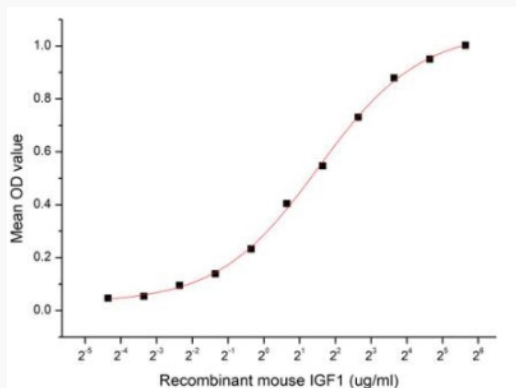
Gene Name	Igf1 insulin-like growth factor 1 [Mus musculus]
Official Symbol	Igf1
Synonyms	IGF1; insulin-like growth factor 1; insulin-like growth factor I; somatomedin; Igf-1; Igf-I; C730016P09Rik;
Gene ID	16000
mRNA Refseq	NM_001111274
Protein Refseq	NP_001104744

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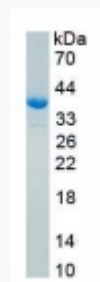
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Activity



SDS-PAGE



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