

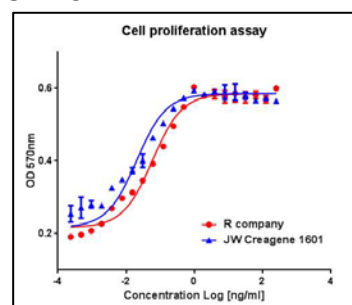
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Insulin-Like Growth Factor-1 (rhIGF-1)</b>
<b>Synonyms</b>	: IGF-1; IGF1; IGF-I; IGF1A; IGF1; Mechano growth factor; MGF; Somatomedin A; Somatomedin C
<b>Description</b>	: IGF-1 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. IGF-1 is a primary mediator of the effects of growth hormone (GH). Growth hormone stimulates the liver to produce IGF-1. IGF-1 then stimulates systemic body growth, and has growth-promoting effects on almost every cell in the body, especially skeletal muscle, cartilage, bone, liver, kidney, nerves, skin, hematopoietic cell, and lungs. IGF-1 can also regulate cell growth and development, especially in nerve cells, as well as cellular DNA synthesis. (Ref. From Wikipedia)
<b>NCBI Accession No.</b>	: NM_001111285.1
<b>Amino acid sequence</b>	: MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSSRRAPQTGIVDECCFRS CDLRRLEMYCAPLKPAKSA
<b>Molecular Mass</b>	: 7.76 kDa (71 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: HIGF1-10, HIGF1-25, HIGF1-50, HIGF1-100, HIGF1-250, HIGF1-500, HIGF1-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Gerbil, Rat, Mouse, Human, Bacteria, Monkey, Mouse + Virus

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 95 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method
<b>Biological Activity</b>	: Determined by proliferation of MCF7 indicator cells. The ED50 is 20~100 pg/ml, corresponding to a specific activity of $1.0 \times 10^7 \sim 5.0 \times 10^7$ EU/mg
<b>Endotoxin</b>	: Less than 0.1 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: PBS, 5% glycerol, pH7.4 without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
<b>Sterility</b>	: Sterilized through a 0.2 $\mu$ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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