

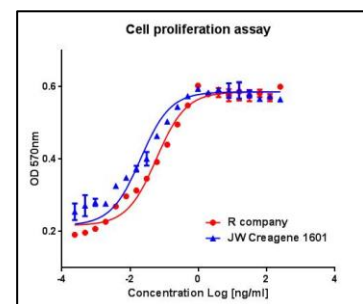
DATA SHEET

Product Information

Product Name	: Recombinant Human Insulin-Like Growth Factor-1 (rhIGF-1)
Synonyms	: IGF-1; IGF1; IGF-I; IGF1A; IGFI; Mechano growth factor; MGF; Somatomedin A; Somatomedin C
Description	: 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)
NCBI Accession No.	: NM_001111285.1
Amino acid sequence	: MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSSRRAPQTGIVDECCFRS CDLRRLEMYCAPLKPAKSA
Molecular Mass	: 7.76 kDa (71 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: JW-H018-0500, JW-H018-1000
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Gerbil, Rat, Mouse, Human, Bacteria, Monkey, Mouse + Virus

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 95 % by SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.5 mg/ml, Bradford method
Biological Activity	: Determined by proliferation of MCF7 indicator cells. The ED50 is < 0.3 ng/ml, corresponding to a specific activity of $> 3.3 \times 10^6$ EU/mg
Endotoxin	: Less than 0.1 EU/ μ g as determined by the LAL method
Formulation	: PBS (pH7.4) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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