

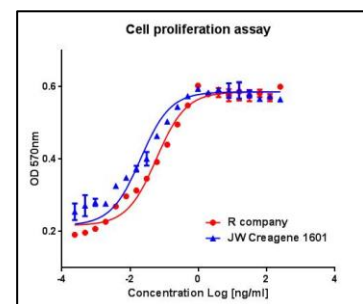
DATA SHEET

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 | : MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRS 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 RP-HPLC and 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 20~100 pg/ml, corresponding to a specific activity of $1.0 \times 10^7 \sim 5.0 \times 10^7$ 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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