

## Insulin-Like Growth Factor 1 Rat Recombinant

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| <b>Item Number</b>                       | rAP-2323                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>                          | Somatomedin C, IGF-I, IGFIA, IGF1.                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>                       | Insulin-Like Growth Factor I Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.7kDa. IGF-I is purified by proprietary chromatographic techniques.                                                                                                                                                  |
| <b>Uniprot Accession Number</b>          | P08025                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Amino Acid Sequence</b>               | GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY<br>CAPLKPTKSA.                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IGF-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF1 should be stored at 4° C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | The protein was lyophilized with a 0.2µm filtered concentrated solution in 20mM PBS, pH 7.0. Greater than 98.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                      |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized IGF1 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                                             |
| <b>Biological Activity</b>               | The ED50 as determined by a cell proliferation assay using FDC-P1 cells is less than 2.0ng/ml, corresponding to a specific activity of >500,000units/mg.                                                                                                                                                                                                                                        |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                         |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**