

## Insulin-Like Growth Factor 1 Human Recombinant

<b>Item Number</b>	rAP-2320
<b>Synonyms</b>	Somatomedin C, IGF-I, IGF1, IGF1, IGF-IA, Mechano growth factor, MGF.
<b>Description</b>	Insulin-Like Growth Factor-I Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.6kDa.IGF-I is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	P01343
<b>Amino Acid Sequence</b>	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLK-PAKSA.
<b>Source</b>	Escherichia Coli.&nbsp;
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Insulin-Like Growth Factor-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 from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.0, 130mM NaCl. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized IGF-1 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 murine BALB/C 3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of&nbsp;> 1×106 units/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**