

## Insulin-Like Growth Factor 1 Rabbit Recombinant

<b>Item Number</b>	rAP-2325
<b>Synonyms</b>	Somatomedin C, IGF-I, IGF1, IGF1, IGF-IA, Mechano growth factor, MGF.
<b>Description</b>	Insulin-Like Growth Factor-I Rabbit Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 71 amino acids and having a molecular mass of 7639 Dalton.&nbsp;
<b>Uniprot Accesion Number</b>	Q95222
<b>Amino Acid Sequence</b>	MTAGPETLCG AELVDALQFV CGDRGFYFNK PTGYGSSRR APQTGIVDEC CFRSCDLRRL EMY-CAPLKP
<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 concentrated (0.5mg/ml) solution with 0.02% NaHCO <sub>3</sub> . Greater than 98.0% &nbsp;as determined by:(a) Gel-filtration chromatography under non denaturing conditions.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized rbIGF-I in sterile 0.4% NaHCO <sub>3</sub> adjusted, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	IGF-I is biologically active when compared to human IGF-1. The ED <sub>50</sub> , calculated by the dose -dependent proliferation of human MCF/7 cells is 5 to 25ng/ml in the cell culture mixture dependent on culture conditions. Its activity consists of 30-40 % compare
<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**