

## Insulin-Like Growth Factor 1 Gilthead Seabream Recombinant

<b>Item Number</b>	rAP-2324
<b>Synonyms</b>	Somatomedin C, IGF-I, IGF1.
<b>Description</b>	Insulin-Like Growth Factor-I Gilthead Seabream Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 68 amino acids and having a molecular mass of 7545.4 Dalton, the predicted pI=7.72. IGF-1 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	
<b>Amino Acid Sequence</b>	The sequence of the first ten N-terminal amino acids was determined and was found to be Met-Ser-Pro-Glu-Thr-Leu-Cys-Gly-Ala-Glu.
<b>Source</b>	Escherichia Coli.
<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 (1mg/ml) solution with 0.02% NaHCO <sub>3</sub> . Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized IGF-1 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>	Binding assays of the <sup>125</sup> I-Gilthead Seabream IGF1 to Gilthead Seabream or carp ( <i>Cyprinus carpio</i> ) sera resulted in high specific binding, indicating the existence of one or more IGF-binding proteins. In binding experiments to crude Gilthead Seabream brain
<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**