

# Rabbit IGF1 Recombinant Protein



RPPB0427

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## Product Information    Protein Information

**Product SKU:**

RPPB0427

**Accession:**

Q95222

**Host:**

Escherichia Coli.

**Protein description:**

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.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF.

**Formulation:**

The protein was lyophilized from a concentrated (0.5mg/ml) solution with 0.02% NaHCO<sub>3</sub>.

**Purity:**

Greater than 98.0% as determined by:(a) Gel-filtration chromatography under non denaturing conditions.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized rbIGF-I in sterile 0.4% NaHCO<sub>3</sub> adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

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.

**Amino Acid Sequence:**

MTAGPETLCG AELVDALQFV CGDRGFYFNK PTGYGSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKP

**Biological Activity:**

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 % compared to human IGF-1.