

## Rat IGF-I

Synonyms: Somatomedin C, IGF-I, IGFA, IGF1.

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
10 µg	1480.970.010		
50 µg	1480.970.050		
1 mg	1480.970.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant Rat IGF-1 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.7kDa.

- **Biological Activity** ≥ 5 x 10<sup>5</sup> units/mg
- **Source** *E. Coli*
- **Purity** ≥ 98 % (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The protein was lyophilized with a 0.2µm filtered concentrated solution in 20mM PBS, pH 7.0\*
- **Physical state** Sterile filtered, lyophilized

### Biological Activity

The ED<sub>50</sub> 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.

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

### Stability

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 avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPTKSA

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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