

## IGF1

### Human Recombinant IGF-I [Leu24], Receptor Grade

<b>Catalog No.</b>	ZU020	<b>Quantity:</b>	20 µg
	ZU100		100 µg

**Alternate Names:** Insulin-like growth factor I, Somatomedin-C, Mechano growth factor, MGF

**Description:** Human [Leu24] insulin-like Growth Factor-I ([Leu24] IGF-I) is an analog of human IGF-I which has a Leucine substitution in place of Tyrosine at position 24 of the human IGF-I sequence. [Leu24]IGF-I has normal binding to acid-stripped human serum binding proteins but has reduced binding to the type 1 IGF receptor and to the insulin receptor compared to IGF-I. It is a useful analogue for studying the relative effects of IGF-I through the type 1 receptor and IGF binding proteins.

**UniProt ID:** P05019

**Gene ID:** 3479

**Source:** Expressed in *E. coli*

**Molecular Weight:** 7599 Da

**Formulation:** Lyophilized from 0.1 M acetic acid and stored under dry N<sub>2</sub> at a slight vacuum.

**Purity:** >95% by HPLC analysis

**Endotoxin Level:** < 0.1 EU/µg.

**Biological Activity:** Stimulation of protein synthesis in rat L6 myoblasts: ED<sub>50</sub> < 100 ng/ml  
IGF type 1 receptor binding assay (ED<sub>50</sub> > 100 ng/ml)  
IGF binding protein assay: ED<sub>50</sub> < 10 ng/ml)

**Amino Acid Sequence:** N-terminal 5 residues confirmed

**Reconstitution:** See Protocol 1000, Handling of IGF-I, IGF-II and IGF analogs.

**Storage & Stability:** Lyophilized product is stable for at least 2 years at 2-8°C.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

