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Recombinant Human [Arg^3] IGF-I, Media Grade

Catalog No.	LU100	**Quantity:**	100 µg
	LM001		1.0 mg
	LM005		5.0 mg

Alternate Names: [Arg^3] Insulin-like growth factor-I

Description: Human [Arg3] insulin-like Growth Factor-I is an analog of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arginine for the Glutamine at position 3. Human [Arg3] IGF-I is more potent than IGF-I in vitro and in vivo due to reduced binding of human [Arg3] IGF-I to most of the IGF binding proteins which modify the biological actions of IGF-I. Human [Arg3] IGF-I binds to the type 1 IGF receptor with similar affinity to wild type IGF-I. Human [Arg3] IGF-I is offered to customers who prefer a full length IGF-I rather than the truncated Human Des [1-3] IGF-I. Media grade Human [Arg3] IGF-I is a high quality reagent at an economical cost to enable studies where higher quantities of peptide are required.

Source: Expressed in *E. coli*

Molecular Weight: 7676 Da (70 aa)

Formulation: Lyophilized from sterile-filtered 0.1M acetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).

Purity: > 95 % by HPLC analysis

Endotoxin Level: < 0.1 EU/µg

N-terminal Sequence: 5 residues confirmed

Biological Activity: ED_{50} <10 ng/ml, stimulation of protein synthesis in rat L6 myoblasts
ED_{50} <10 ng/ml, Type 1 IGF receptor binding assay
ED_{50} > 50 ng/ml, IGF binding protein assay

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

Storage & Stability: Store as supplied for up to 1 year at 2-8°C.
Avoid repeated freeze-thaw cycles.

Application Notes: Protocol 3001: Iodination of IGF peptides
Protocol 3002: Determination of IGF-I or IGF-II in a range of species by Radioimmunoassay (RIA)

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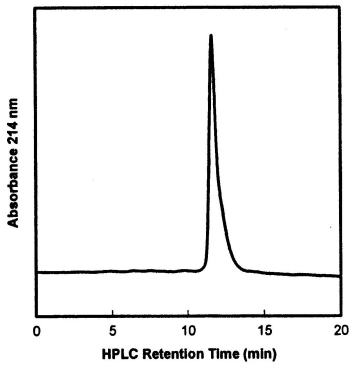
H.P.L.C. Analysis: Reverse-phase, C_4 2.1 mm x 10 cm column. Linear gradient 15-45% acetonitrile in water, 0.1% trifluoroacetic acid.



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