



# ISO 9001:2016 Certified Recombinant LR<sup>3</sup> IGF-I Proteins\*

## Human LR<sup>3</sup> IGF-I [LR<sup>3</sup>] (Media Grade)

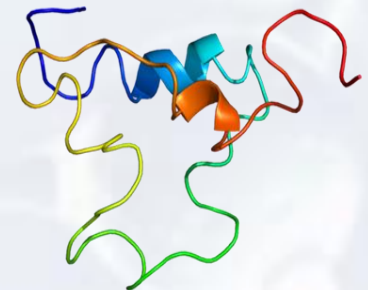
- ❑ GroPep developed *GroPep's LR<sup>3</sup>* specifically for the supplementation of mammalian cell culture to support the survival and proliferation of cells.
- ❑ *GroPep's LR<sup>3</sup>* is engineered from natural (hIGF-1), with a Q→R substitution at position 3 plus a 13 amino acid extension at the N-terminus.
- ❑ *GroPep's LR<sup>3</sup>* binds to the type-1 IGF receptors with an affinity similar to that of wild-type IGF-I.

## Why use GroPep's LR<sup>3</sup>?

- ❑ *GroPep's LR<sup>3</sup>* is more potent than natural IGF-I in vitro and in vivo.
- ❑ *GroPep's LR<sup>3</sup>* was developed by GroPep specifically for supplementation of mammalian cell culture to support the survival and proliferation of cells.
- ❑ *GroPep's LR<sup>3</sup>* is engineered to be more potent and more advantageous than using insulin survival and proliferation.
- ❑ *GroPep's LR<sup>3</sup>* is effective at a much lower concentration than insulin or IGF-1.
- ❑ *GroPep's LR<sup>3</sup>* is better able to stimulate the type I IGF receptor and thus induce a higher level of activation.
- ❑ *GroPep's LR<sup>3</sup>* IGF-I is a high-quality product for use in both commercial cell culture manufacture and academic research programs.

## Human LR<sup>3</sup> IGF-I Product Details (Media Grade)

Source:	<i>E. coli.</i> , animal-free media production
MW:	9110 Daltons
Purity:	≥ 95% (SDS-Gel)
Biological Activity:	EC <sub>50</sub> ≤ 10 ng/ml via a CHO proliferation system
Endotoxin:	≤ 0.1 EU/μg
Appearance:	White powder
Formulation:	Freeze-dried from 0.1M acetic acid and stored under nitrogen at a slight vacuum
Storage/Stability:	≥ 2 years at 2-4°C, unopened vial
Culture Detect:	Biosensis/GroPep ELISA BEK-2233-1P/2P



## GroPep LR<sup>3</sup> IGF-I Product Offerings

Name	Quantity	Catalog #
Human LR <sup>3</sup> IGF-I (Media Grade)	1 mg	AM001
Human LR <sup>3</sup> IGF-I (Media Grade)	10 mg	AM010
Human LR <sup>3</sup> IGF-I (Receptor Grade)	20 μg	BU020
Human LR <sup>3</sup> IGF-I (Receptor Grade)	100 μg	BU100



\* GroPep Bioreagents has Certification of Compliance to AS/NZS ISO 9001:2016 Quality Management System