

# LR<sup>3</sup> IGF-I *Rapid*<sup>TM</sup> ELISA Kit

*Developed by Biosensis and GroPep*

**NEW  
ELISA!**

## Validated LR<sup>3</sup> IGF-I *Rapid*<sup>TM</sup> ELISA Assay:

- Results within 3 hours.
- Range: 3.9 - 200 ng/mL.
- Measure LR<sup>3</sup> IGF-I levels in production media.
- Check for elimination of LR<sup>3</sup> IGF-I from final product.
- Cross reaction with human IGF-I is 32%.
- Cross reaction with human IGF-II is less than 0.01%.

**Catalogue Number: BEK-2233-1P/2P**

### Kit components:

- LR<sup>3</sup> IGF-I antibody coated 96 well microplate
- Assay diluent A
- Recombinant LR<sup>3</sup> IGF-I standard
- LR<sup>3</sup> IGF-I detection antibody (100x)
- Streptavidin-HRP (100x)
- Wash buffer (10x)
- TMB substrate (1x)
- TMB stop solution
- Plate sealer

### LR<sup>3</sup> IGF-I *Rapid*<sup>TM</sup> ELISA Kit

Target	Code (2 Plate)	Code (1 Plate)	Species reactivity	Sensitivity	Range
LR <sup>3</sup> IGF-I <i>Rapid</i> <sup>TM</sup>	BEK-2233-2P	BEK-2233-1P	Hu	1 ng/mL	3.9 ng/mL - 200 ng/mL

## GroPep's LR<sup>3</sup> IGF-I ISO 9001:2016 Certified protein:

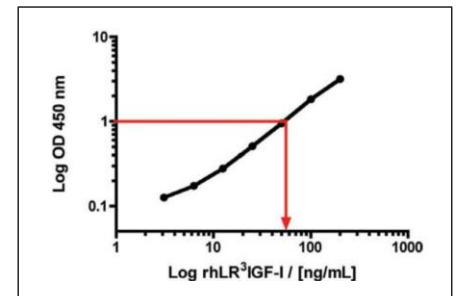
- A synthetic Insulin-like Growth Factor-I (IGF-I) analogue
- A superior alternative to insulin for mammalian cell culture
- LR<sup>3</sup> IGF-I is effective at a much lower concentration than insulin or IGF-1
- LR<sup>3</sup> IGF-I is better able to stimulate the type-I IGF receptor and thus induce a higher level of activation

**Catalogue Number: AM001**

**Qty: 1mg**

**Catalogue Number: AM010**

**Qty: 10mg**



This standard curve generated in our laboratories is for demonstration purposes only, but can be used as a guide to expected performance.

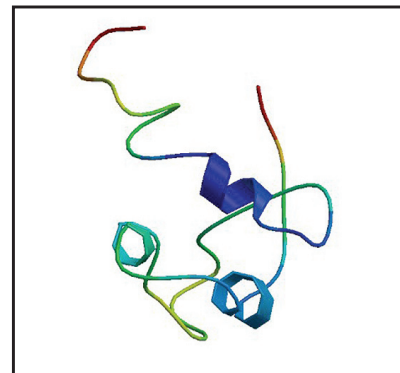
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## Human LR<sup>3</sup> IGF-I (ISO 9001:2016 Certified)

Human LR<sup>3</sup> insulin-like Growth Factor-I (LR<sup>3</sup> IGF-I) is an 83 amino acid analogue of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arginine for the Glutamine at position 3, plus a 13 amino acid extension peptide at the N-terminus.

Human LR<sup>3</sup> IGF-I is more potent than IGF-I in vitro and in vivo. This increased potency is due to reduced binding of LR<sup>3</sup> IGF-I to most of the IGF binding proteins which modify the biological actions of IGF-I. Human LR<sup>3</sup> IGF-I binds to the type 1 IGF receptor with similar affinity to wild type IGF-I.



LR<sup>3</sup> IGF-I was developed by GroPep specifically for supplementation of mammalian cell culture to support the survival and proliferation of cells. It is engineered to have a higher biological potency than native IGF-I or IGF-II and has several advantages over recombinant insulin. Supplementation of cell cultures with LR<sup>3</sup> IGF-I at a much lower concentration results in equivalent or better productivity than supplementation with standard concentrations of insulin. LR<sup>3</sup> IGF-I is better able to stimulate the type I IGF receptor and thus induce a higher level of activation of intracellular signalling molecules which are responsible for promoting cell survival by inhibition of apoptosis.

**LR<sup>3</sup> IGF-I is a high quality product for use in commercial cell culture. It can also be used as a research reagent at an economical cost to enable studies where higher quantities of peptide are required.**

## Details Summary:

**Source:** Produced in E.coli. Molecular Weight: 9110 daltons

**Purity:** >95 % (by SDS gel electrophoresis)

**Biological Activity:** Proliferation of chinese hamster ovary (CHO) cells (EC<sub>50</sub> ≤ 10 ng/mL)

**Endotoxin:** < 0.1 EU/μg

**Appearance:** White powder freeze-dried from 0.1M acetic acid and stored under nitrogen at a slight vacuum

**Storage/Stability:** At least 2 years at 2-4°C (as a freeze dried product)

**Reconstitution:** Please see website for detailed instructions, Handling of GroPep IGF-I, IGF-II and IGF analogues

**Culture Detection:** Biosensis/GroPep ELISA BEK-2233-1P/2P

### GroPep's LR<sup>3</sup>IGF-I Proteins available:

Name	Quantity	Code
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

## Contact us:

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