

LR³IGF-I *Rapid*[™] ELISA Kit

Developed by Biosensis and GroPep

**NEW
ELISA!**

Validated LR³IGF-I *Rapid*[™] ELISA Assay:

- Results within 3 hours.
- Range: 3.9 - 200 ng/mL.
- Measure LR³IGF-I levels in production media.
- Check for elimination of LR³IGF-I from final product.
- Cross reaction with human IGF-I is 32%.
- Cross reaction with human IGF-II is less than 0.01%.

Catalog Number: BEK-2233-1P/2P

Kit components:

- LR³IGF-I antibody coated 96 well microplate
- Assay diluent A
- Recombinant LR³IGF-I standard
- LR³IGF-I detection antibody (100x)
- Streptavidin-HRP (100x)
- Wash buffer (10x)
- TMB substrate (1x)
- TMB stop solution
- Plate sealer

LR³IGF-I *Rapid*[™] ELISA Kit

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

Also available: LR³IGF-I (Media Grade) protein:

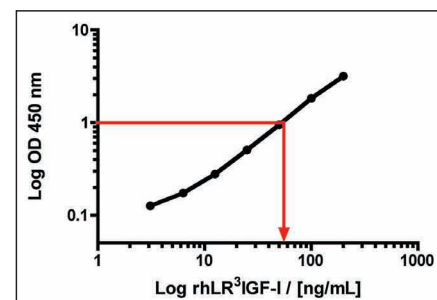
- A synthetic Insulin-like Growth Factor-I (IGF-I) analog.
- A superior alternative to insulin for mammalian cell culture.
- LR³IGF-I is an 83 amino acid analogue of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arginine for the Glutamine at position 3, plus a 13 amino acid extension peptide at the N-terminus.

Catalog Number: AM001

Qty: 1mg

Catalog 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.

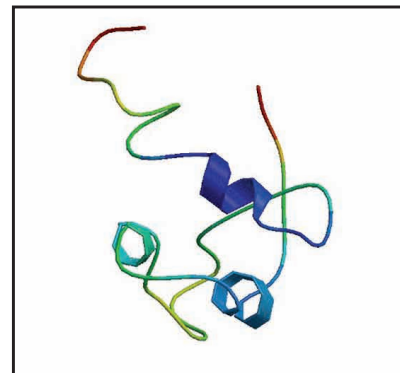
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Human LR³ IGF-I (Media Grade)

Human LR³ insulin-like Growth Factor-I (LR³ 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 LR³ IGF-I is more potent than IGF-I in vitro and in vivo. This increased potency is due to reduced binding of LR³ IGF-I to most of the IGF binding proteins which modify the biological actions of IGF-I. Human LR³ IGF-I binds to the type 1 IGF receptor with similar affinity to wild type IGF-I.



LR³ 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 LR³ IGF-I at a much lower concentration results in equivalent or better productivity than supplementation with standard concentrations of insulin. LR³ 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.

Media grade LR³ 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) > 70% (by HPLC analysis) (Other species are microheterogeneous forms which have biological activity)

Biological Activity: Stimulation of protein synthesis in rat L6 myoblasts (ED50 < 10 ng/ml); IGF binding protein assay (ED50 > 200 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

Contact us:

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LR³IGF-I Proteins available from Biosensis and GroPep

| Name | Quantity | Code |
|--|----------|-------|
| Human LR ³ IGF-I (Media Grade) | 1 mg | AM001 |
| Human LR ³ IGF-I (Media Grade) | 10 mg | AM010 |
| Human LR ³ IGF-I (Receptor Grade) | 20 μg | BU020 |
| Human LR ³ IGF-I (Receptor Grade) | 100 μg | BU100 |