



LR3IGF-I Rapid ELISA Kit: Human (1 plate)

Catalogue No.: BEK-2233-1P

Description: Human LR³ insulin-like Growth Factor-I (LR³IGF-I) was developed by GroPep Bioreagents (www.gropep.com) 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 LR³IGF-I at a much lower concentration results in equivalent or better productivity than supplementation with standard concentrations of insulin. LR³IGF-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.

This LR³IGF-I Rapid™ ELISA kit combines GroPep's many years of expertise in the field of IGF research and Biosensis' newly established Rapid™ ELISA platform. This collaboration has resulted in the new LR³IGF-I Rapid™ ELISA kit, which provides for the sensitive, specific and reliable quantification of LR³IGF-I protein in less than 3 hours!

The ELISA kit consists of a complete set of reagents and pre-coated plate to allow immediate assay of LR³IGF-I in culture media. Included in the kit are mouse monoclonal anti-LR³IGF-I capture antibody pre-coated onto an ELISA plate, standard LR³IGF-I protein, a biotinylated anti-LR³IGF-I detection antibody and horseradish peroxidase (HRP)-conjugated streptavidin. The addition of a substrate (3,3',5,5'-tetramethylbenzidine, TMB) yields a colored reaction product which is directly proportional to the concentration of LR³IGF-I present in samples and the supplied protein standard.

This LR³IGF-I Rapid™ ELISA kit has been developed, optimized and validated to quantify LR³IGF-I protein in cell culture medium. It is likely to be used to measure LR³IGF-I in media and during downstream processing of media following a production cycle and is not intended for other use. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

Batch No.: Refer to the product label.

Antigen: 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.

Other Names: Human LR3 insulin-like Growth Factor-I.

Accession: Q9NO10 IGF1_HUMAN (unmodified protein)

Specificity: Human

Cross-reactivity: The assay is intended for quantification of LR³IGF-I. Cross-reaction with human IGF-I is 32%. Cross-reaction with human IGF-II is less than 0.01%.

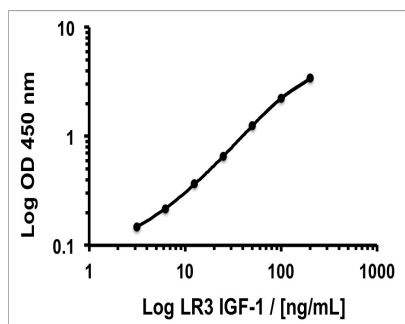
Storage: Store at 4°C

FOR RESEARCH USE ONLY



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Expiry Date:	12 months from purchase.
Kit components:	The ELISA kit box contains 1 x 96-well pre-coated strip plate, protein standards, detection reagents, wash and sample buffers, substrate buffer and detailed protocols.
Range:	3.9 ng/mL - 200 ng/mL
Sensitivity:	Typical limit of detection (LOD) for LR ³ IGF-I is 1 ng/mL determined as 150% of the blank value.
Kit protocol:	Please refer to our online product listing for current protocol/MSDS versions.
MSDS:	Please refer to our online product listing for current protocol/MSDS versions.



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

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