

[Ala³¹][Leu⁶⁰]IGF-I Recombinant Human (Receptor Grade)

Catalog No:	ALU020 ALU100	Quantity:	20 µg 100 µg
Description:	Human [Ala ³¹][Leu ⁶⁰]Insulin-like Growth Factor-I ([Ala ³¹][Leu ⁶⁰]IGF-I) is an analog of human IGF-I which has an Ala substitution in place of Tyr at position 31 and a Leu substitution in place of Tyr at position 60 of the human IGF-I sequence. [Ala ³¹][Leu ⁶⁰]IGF-I has greatly reduced binding to the Type 1 IGF receptor and to the insulin receptor compared to IGF-I, [Leu ²⁴]IGF-I and [Leu ⁶⁰]IGF-I. However [Ala ³¹][Leu ⁶⁰]IGF-I has normal binding to acid-stripped human serum binding proteins. Consequently [Ala ³¹][Leu ⁶⁰]IGF-I is an extremely useful analog of IGF-I for investigating IGF actions largely independent of binding to the Type 1 IGF receptor.		
References:	Forbes, B.E. <i>et al.</i> (2002) <i>Eur. J. Biochem.</i> , 269 , 961-968 Milner, S. J. <i>et al.</i> (1995) <i>Biochem. J.</i> , 308 , 865-871		
Source:	Produced recombinantly in <i>E. coli</i> .		
Purity:	Greater than 95 % (by HPLC and N-terminal sequence analysis)		
Molecular Weight:	7.507 kDa – confirmed by Mass Spectrometry		
N-terminal sequence analysis:	5 residues Greater than 95 % single sequence		
Biological Activity:	Type 1 IGF receptor binding assay: ED ₅₀ Greater than 750 ng/ml IGF binding protein assay: ED ₅₀ Less than 10 ng/ml		
Endotoxin:	Less than 0.1 EU/µg		
State and appearance:	Lyophilized white powder. Dried from 0.1 M acetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa)		
Storage/Stability:	At least 2 years at 2 - 4°C (lyophilized)		
Reconstitution:	Refer to Protocol 1000 : Handling of GroPep IGF-I, IGF-II and IGF Analogs		

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