

IGF1

Recombinant Human [Leu²⁴][Ala³¹] IGF-I Receptor Grade

Catalog No.	ADU020	Quantity:	20 µg
Alternate Names:	Insulin-like Growth Factor [Leu24] [Ala31]		
Description:	Human [Leu24] [Ala31] Insulin-like Growth Factor-I (IGF-I) is an analog of human IGF-I with a Leu substitution in place of Tyr at position 24 and an Ala for Tyr at position 31 of the human IGF-I sequence. Human [Leu24] [Ala31] IGF-I has greatly reduced binding to the Type 1 IGF receptor and to the insulin receptor compared to IGF-I, [Leu24] IGF-I and [Leu60] IGF-I. Human [Leu24] [Ala31] IGF-I has normal binding to acid-stripped human serum binding proteins. Consequently human [Leu24] [Ala31] IGF-I is an extremely useful analog of IGF-I for investigating IGF actions largely independent of binding to the Type 1 IGF receptor.		
UniProt ID:	P08069		
Gene ID:	3479		
Source:	<i>E. coli</i> expressed		
N-terminal Sequence:	Analysis of 5 residues		
Molecular Weight:	7.5 kDa		
Formulation:	Lyophilized from 0.1 M acetic acid. Sealed under dry N ₂ at slight vacuum (-25 kPa)		
Purity:	> 95% by HPLC		
Endotoxin Level:	< 0.1 EU/µg		
Biological Activity:	IGF type 1 receptor binding assay: ED ₅₀ > 50 ng/ml IGF binding protein assay: ED ₅₀ < 10 ng/ml Stimulates protein synthesis in rat L6 myoblasts: ED ₅₀ > 2000 ng/ml		
Reconstitution:	See Protocol 1000, Handling of IGF-I, IGF-II and IGF analogs.		
Storage & Stability:	Store as supplied for up to 1 year at 2-8°C		

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