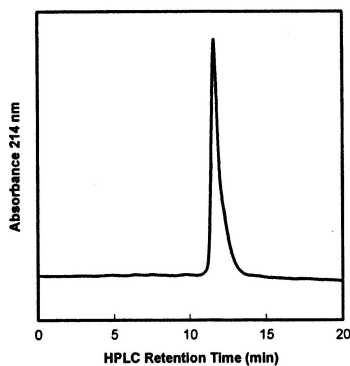


IGF1

Recombinant Human Des [1-3] IGF-I, Receptor Grade

Catalog No.	DU100 DM001	Quantity:	100 µg 1.0 mg
Alternate Names:	Insulin-like growth factor-I, Somatomedin C, Mechano growth factor, MGF		
Description:	Human Des(1-3) Insulin-like Growth Factor-I is a 67 amino acid analog of human IGF-I lacking the N-terminal tripeptide Gly-Pro-Glu. Human Des(1-3) IGF-I is more potent than IGF-I in vitro and in vivo. This increased potency is due to reduced binding of human Des(1-3) IGF-I to most of the IGF binding proteins which normally inhibit the biological actions of IGF-I. Human Des(1-3) IGF-I binds to the Type 1 IGF receptor with similar affinity to wild-type IGF-I. This is a high quality reagent for use in studies on cell growth, IGF receptors and IGFBPs.		
UniProt ID:	P05019		
Gene ID:	3479		
Source:	Expressed in <i>E.coli</i>		
Molecular Weight:	7370±2 daltons		
Formulation:	Lyophilized from sterile-filtered 0.1 M acetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).		
Purity:	> 95 % by HPLC analysis		
Endotoxin Level:	< 0.1 EU/µg		
N-terminal Sequence:	Confirmed 5 residues		
Biological Activity:	Stimulation of protein synthesis in rat L6 myoblasts: ED ₅₀ < 10 ng/ml Type 1 IGF receptor binding assay: ED ₅₀ < 10 ng/ml IGF binding protein assay: ED ₅₀ > 100 ng/ml		
Reconstitution:	See Protocol 1000, Handling of IGF-I, IGF-II and IGF analogs.		
Applications Notes:	Protocol 3001: Iodination of IGF peptides Protocol 3002: Determination of IGF-I or IGF-II in a range of species by Radioimmunoassay (RIA)		
Storage & Stability:	Store as supplied for up to 1 year at 2-8°C		

Reverse-phase, C4 2.1 mm x 10 cm column.
Linear gradient 15-45% acetonitrile in water, 0.1% trifluoroacetic acid.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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