

## Human Des [1-3] IGF-I

### Description

Human Des [1-3] insulin-like Growth Factor-I (IGF-I) is a 67 amino acid analogue 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 modify 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 research reagent for use in studies on cell growth, IGF receptors and IGF binding proteins.

### References

Bagley C *et al* (1991) Biochemical and Biophysical Research Communications **149**, 398-404  
Tomas FM *et al* (1991) Journal of Endocrinology. **128**, 97-105

### Source:

Produced in *E.coli*.

### Molecular Weight:

7370±2 daltons

### Purity:

>95 % (by HPLC analysis)

### N-terminal sequence:

Analysis of 5 residues

### Biological Activity:

Stimulation of protein synthesis in rat L6 myoblasts (ED<sub>50</sub> < 10 ng/ml)  
IGF type 1 receptor binding assay (ED<sub>50</sub> < 10 ng/ml)  
IGF binding protein assay: ED<sub>50</sub> > 100 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:

*Handling of GroPep IGF-I, IGF-II and IGF analogues*

### Product Codes and Pricing

#### Human Des [1-3] IGF-I

100 μg

DU100

1 mg

DM001

### Related Products:

Human IGF-I (Receptor Grade)  
Human LR<sup>3</sup>IGF-I (Receptor grade)  
Human [Arg3] IGF-I (Receptor Grade)

**\*\*NOT FOR USE IN HUMANS\*\***

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