

Human IGF-II Analogues

GroPep produces human insulin-like growth factor-II (IGF-II) in both a high purity Receptor Grade and a cost-effective Media Grade

GroPep has also engineered analogues of IGF-II with altered affinity for the type 1 and type 2 IGF receptors and/or the IGF Binding Proteins (IGFBPs) which have different biological properties when compared to IGF-II

Des [1-6] IGF-II

- Similar potency to IGF-II *in vitro*
- Similar affinity for the type 2 IGF receptor relative to IGF-II
- **Reduced binding to IGFBPs relative to IGF-II**

[Arg⁶] IGF-II

- Similar potency to IGF-II *in vitro*
- Similar affinity for the type 2 IGF receptor relative to IGF-II
- **Reduced binding to IGFBPs relative to IGF-II**

[Leu²⁷] IGF-II

- **Much lower affinity for the type 1 IGF receptor relative to IGF-II**
- Lower affinity for the type 2 IGF receptor relative to IGF-II
- Similar binding to human IGFBP-3 relative to IGF-II

Key Properties

Affinity for type 1 IGF receptor:

IGF-II = [Arg⁶] IGF-II = Des [1-6] IGF-II >>> [Leu²⁷] IGF-II

Affinity for type 2 IGF receptor:

IGF-II = [Arg⁶] IGF-II = Des [1-6] IGF-II > [Leu²⁷] IGF-II

Affinity for IGF Binding Proteins:

IGF-II = [Leu²⁷] IGF-II >>> [Arg⁶] IGF-II = Des [1-6] IGF-II

Primary References

Forbes BE *et al* (2002) *European Journal of Biochemistry* 269, 961-968

Francis GL *et al* (1993) *Biochemical Journal* 293, 713-719

Roth BV *et al* (1991) *Biochemical and Biophysical Research Communications* 181, 907-914

Bürgisser DM *et al* (1991) *Journal of Biological Chemistry* 266, 1029-1033

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Human IGF-II Analogues

Products

Human IGF-II

Receptor Grade	Code	Quantity	Price
	FM001	1 mg	US\$1,500
	FU100	100 µg	US\$250
	FU020	20 µg	US\$150

Media Grade	Code	Quantity	Price
	OM001	1 mg	US\$800
	OU100	100 µg	US\$180

Des [1-6] IGF-II

Receptor Grade	Code	Quantity	Price
	MU100	100 µg	US\$200
	MU020	20 µg	US\$100

[Arg⁶] IGF-II

Receptor Grade	Code	Quantity	Price
	GU020	20 µg	US\$100

[Leu²⁷] IGF-II

Receptor Grade	Code	Quantity	Price
	TU100	100 µg	US\$200

- * Prices shown are in US\$ but we can quote in your own currency
- * If you require higher quantities, please contact us for a quote including a discount
- * For further information and the ordering process, click on the link to the website

<http://www.gropep.com>

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