

R3 IGF-I, Human Recombinant, Animal-free

Human R3 IGF-1 (Long Arg3 Insulin-Like Growth Factor- I) is an 83 amino acid analog of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arg(R) for the Glu(E) at position three (hence R3), and a 13 amino acid extension peptide at the N terminus. This analog of IGF-I has been produced with the sole purpose of increasing the biological activity of the IGF-I. Long R3 IGF-I is significantly more potent than IGF-I. The enhanced potency is due to the decreased binding of Long R3 IGF-I to all known IGF binding proteins. These binding proteins normally inhibit the biological actions of IGF's.

Some key features and benefits of R3 IGF-I are:

- Biologically more active than native IGF-I
- 200 times more potent than Insulin and 3 times more stable in cell culture
- Produced in *E. coli* expression system under Animal Origin Free (AOF) manufacturing conditions
- Increased cell density, higher viability and extended culture duration
- Ideal for both research and large-scale cell culture systems utilizing serum-free or low-level serum applications
- Is effective in commercially relevant cell types including CHO, HEK 293, etc.
- High purity and low endotoxins
- Available both as lyophilized solid and ready-to-use liquid formulations

Name	Cat. #	Size	Price (USD)
R3 IGF-I, Human Recombinant	4216-100	100 µg	\$95
	4216-1MG	1 mg	\$215
	4216-5MG	5 mg	\$685
	4216-20MG	20 mg	\$1,685
	4216-50MG	50 mg	\$2,695
	4216-1G	1 g	\$35,000

Note: IGF-I, R3, human recombinant is also available in large (Kg) quantities.