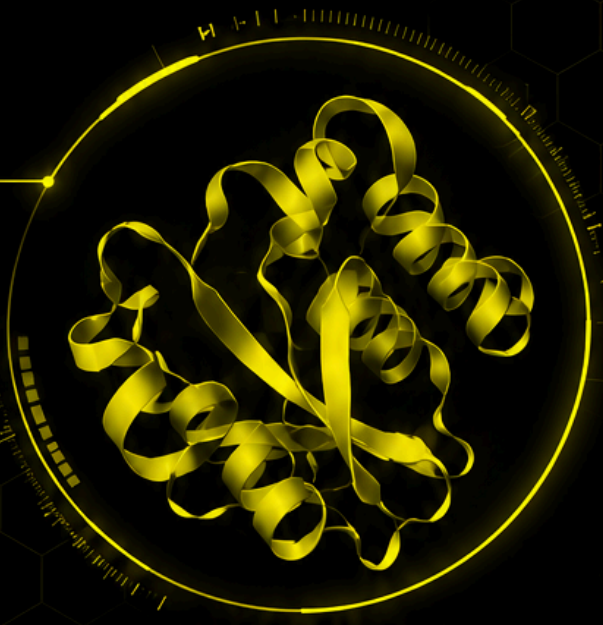
EUPORIA
PEPTIDES

IGF-1 LR3

LONG R3 INSULIN-LIKE GROWTH FACTOR I

An engineered 83-amino-acid analog of human IGF-I used in experimental research.



Illustrative protein artwork

MOLECULAR PROFILE

- 83 amino acids
- Approx. 9.1 kDa
- Single-chain protein analog

TWO MODIFICATIONS

- 13-amino-acid N-terminal extension
- Arg replaces Glu at position 3 of mature IGF-I.

MECHANISM

- Retains IGF-I receptor activity.
- Binds IGF-binding proteins (IGFBPs) much less strongly than native IGF-I.
- Its responses depend on the experimental model and IGFBP levels.

RESEARCH CONTEXT

- IGF-I receptor signaling
- IGFBP interactions
- Cell culture growth studies

Source: Francis et al., *Journal of Molecular Endocrinology* (1992), 8:213–223; GenScript Long R3 IGF-I product specification.

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