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## Product Data Sheet

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Product Name: IGF1 Human, R36Q

Cat. No.: GP20420

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Somatomedin C; IGF-I; IGF1; IGF-IA; Mechano growth factor; MGF.		
Amino Acid Sequence	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSQRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA.		
Solubility	It is recommended to reconstitute the lyophilized IGF1R36Q in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IGF1R36Q Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB and 150 mM NaCl, pH 5.4.		

**Introduction**

The somatomedins, or insulin-like growth factors (IGFs), comprise a family of peptides that takes part in mammalian growth and development. IGF1 mediates various growth-promoting effects of growth hormone (GH; MIM 139250). Early studies showed that growth hormone did not directly stimulate the incorporation of sulfate into cartilage, but rather acted through a serum factor, termed 'sulfation factor,' which later became known as 'somatomedin' (Daughaday et al., 1972). 3 main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B (MIM 193190) (Rotwein, 1986; Rosenfeld, 2003).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IGF1 R36Q Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of Approximately 7.6kDa. The IGF1 R36Q is purified by proprietary chromatographic techniques.

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