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IGF1 Human, R36Q

Insulin Like Growth Factor-1, Mutant R36Q Human Recombinant
GRF0167

Product Overview

Name	IGF1 Human, R36Q

Description

Insulin Like Growth Factor-1, Mutant R36Q Human Recombinant

Accession (Primary)	P05019

Synonyms

Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF.

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).

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

IGF1 R36Q Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB and 150 mM NaCl, pH 5.4.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSQRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA.

Solubility

It is recommended to reconstitute the lyophilized IGF1 R36Q in sterile 18MΩ-cm H 2 O not less than 100 μg/ml, which

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can then be further diluted to other aqueous solutions.

Precautions

IGF1 Human, R36Q is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05019)