

IGF1 Rat

Description: Insulin-Like Growth Factor I Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7687 Dalton. IGF-I is purified by proprietary chromatographic techniques.

Synonyms: Somatomedin C, IGF-I, IGFIA, IGF1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 98.0% as determined by SDS-PAGE.

Formulation:

The protein was lyophilized with no additives.

Stability:

Lyophilized IGF-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized IGF1 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

The somatomedins, or insulin-like growth factors (IGFs), comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the 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). Three main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B (MIM 193190) (Rotwein, 1986; Rosenfeld, 2003).

Biological Activity:

The ED50, was calculated 2 methods: 1. Stimulation of protein synthesis in rat L6 myoblasts ED50 was found to be $\approx 30\text{ng/ml}$ corresponding to a Specific Activity of 33,334IU/mg. 2. Type 1 IGF receptor binding assay ED50 was found to be $\approx 10\text{ng/ml}$ corresponding to a Specific Activity of 100,000IU/mg.

References:

Title: Evidence that androgen-independent stromal growth factor signals promote androgen-insensitive prostate cancer cell growth in vivo. Publication: Published online before print

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