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Insulin-Like Growth Factor-I, rat recombinant (rrIGF-1)

Catalog No: 87394 Lot No: XXXXX Source: E. coli

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

Background

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).

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.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized with no additives.

Solubility

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

Stability

Lyophilized IGF-1, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFI 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.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Activity

The ED50, was calculated 2 methods: 1. Stimulation of protein synthesis in rat L6 myoblasts ED50 was found to be <30 ng/ml corresponding to a specific activity of 33,334 IU/mg. 2. Type 1 IGF receptor binding assay ED50 was found to be <10 ng/ml corresponding to a specific activity of 100,000 IU/mg.

Usage

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