



Insulin-Like Growth Factor 1, human recombinant, GST Tag (rHuIGF1-GST)

Catalog No: 97305
Lot No: XXXXX
Source: *E. coli*
Synonyms: Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF

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

IGF1 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain fused to a GST Tag and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

IGF1 is supplied in 50 mM Tris-acetate, pH 7.5, 1 mM EDTA and 20% glycerol.

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. Please avoid freeze thaw cycles.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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