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IGF1 Rat

IGF-1 Rat Recombinant
GRF0172

Product Overview

Name	IGF1 Rat
Description	
IGF-1 Rat Recombinant	
Accession (Primary)	P08025
Synonyms	
Somatomedin C, IGF-I, IGFIA, IGF1.	
Introduction	
The somatomedins, or IGFs, comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the growth-promoting effects of GH. Early studies showed that GH 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).	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized with a 0.2 μm filtered concentrated solution in 20mM PBS, pH 7.0.	
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.	
Amino acid sequence	
GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPTKSA.	
Biological Activity	

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The ED 50 as determined by a cell proliferation assay using FDC-P1 cells is less than 2.0ng/ml, corresponding to a specific activity of > 500,000units/mg.

Solubility

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

References

Title :Evidence that androgen-independent stromal growth factor signals promote androgen-insensitive prostate cancer cell growth in vivo. Publication : Published online before print March 17, 2009, doi: 10.1677/ERC-08-0219 Endocr Relat Cancer June 1, 2009 16 415-428 . Link : IGF1 Rat prospec publication

Precautions

IGF1 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08025)