

FT-8U2580



IGF1 N15 Human

Product Description

Catalog #:	8U2580, 10µg	8U2581, 50µg	8U2582, 1mg
Name :	IGF1 N15 Human Recombinant Insulin Like Growth Factor-1 N15 Labeled Human Recombinant Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF.		
Description :	IGF1 N15 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 7.74kDa. The N15 is stable isotope labeled. The IGF1 N15 is purified by proprietary chromatographic techniques.		
Source :	<i>Escherichia Coli.</i>		
Physical Appearance :	Sterile Filtered White lyophilized (freeze-dried) powder.		
Formulation :	IGF1 N15 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.2.		
Purity :	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.		
Solubility:	It is recommended to reconstitute the lyophilized IGF1 N15 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Amino acid Sequence:	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA.		
Biological Activity :	The ED ₅₀ as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 2ng/ml, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg.		
Storage :	Lyophilized IGF1 N15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF1 N15 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.		

For Research Use Only

Technical and Scientific Information

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).

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

P.1

FT-8U2580

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

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