

Insulin-Like Growth Factor 1 Des (1-3) Human Recombinant

Item Number	rAP-2326
Synonyms	Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF, Des(1-3), Des1-3, Des 1-3, Des (1-3), IGF-1 (4-70).
Description	IGF-I Des(1-3) Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 67 amino acids (aa 4-70) and having a molecular mass of 7368.5 Dalton. IGF-1 Des1-3 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01343
Amino Acid Sequence	TLCGAELVDA LQFVCGDRGF YFNKPTGYGS SSRRAPQTGI VDECCFRSCD LRRLEMYCAP LKPAKSA.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IGF-I des(1-3) although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF1 des-1-3 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.
Formulation and Purity	The protein (1mg/ml) was lyophilized from a 0.2µm filtered concentrated solution in 20mM PBS, pH 7.0. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the IGF-I des(1-3) in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using FDC-P1 cells is less than 2.0 ng/ml, corresponding to a specific activity of > 5×10 ⁵ units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**