



Recombinant Human DES1-3/ Insulin-Like Growth factor 1 (rHuDES1-3/IGF1)

ScienCell Product Sheet

Catalog Number:	105-01B
Source:	<i>Escherichia coli</i> .
Molecular Weight:	7.4 kDa, a single non-glycosylated polypeptide chain containing 67 amino acid residues.
Quantity:	20µg/100µg/1000µg
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	The ED ₅₀ was determined by a cell proliferation assay using serum free human MCF-7 cells is less than 2 ng/ml, corresponding to a specific activity of >5×10 ⁵ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
AA Sequence:	TLCGAELVDALQFVCGDRGFYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLK PAKSA
Endotoxin:	Less than 1 EU/µg of rHuDES1-3/IGF1 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Usage:	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.

Human DES1-3/Insulin-Like Growth factor 1(rHu DES1-3/IGF)

Human Des(1-3)Insulin-like Growth Factor-I (IGF-I) is a 67 amino acid analog of human IGF-I lacking the N-terminal tripeptide Gly-Pro-Glu. Human Des(1-3)IGF-I is more potent than IGF-I *in vitro* and *in vivo*. This increased potency is due to reduced binding of human Des(1-3)IGF-I to most of the IGF binding proteins which normally inhibit the biological actions of IGF-I. Human Des(1-3)IGF-I binds to the Type 1 IGF receptor with similar affinity to full length IGF-I.

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