

**Product:** **Recombinant Human IGF-II**  
**Cat #: 300-133P**  
Powder

Description	Insulin-like Growth Factor II (IGF-II) is a major growth hormone made by Theca cells during gestation. While IGF-II is known to engage the IGF-I receptor (IGF1R) to mediate embryonic growth, IGF-II is also known to bind the IGF-II receptor (IGF2R). IGF2R is thought to be signaling dead receptor that acts as a sink by binding up free IGF-II. Alternate names: Somatamedin A
MW	Non-glycosylated protein, containing 67 amino acids, with a molecular weight of 7.5 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IGF-II is lyophilized with no additives.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose dependent proliferation of FDC-P1 cells and is typically 1.5-6 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein.
AA Sequence	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE

Purity greater than 97% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**