

## 32-12122: Human Insulin-like Growth Factor II (AF)

**Gene :** IGF2  
**Gene ID :** 3481  
**Uniprot ID :** P01344  
**Alternative Name :** Somatomedin-A, T3M-11-derived growth factor

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 7.5 kDa (67 aa)

Insulin-like growth factor II (IGF-II) is an important fetal growth hormone made by theca cells during gestation. IGF-II engages the IGF-I receptor (IGF1R) to mediate embryonic growth. IGF-II also binds the sink IGF-II receptor (IGF2R) leading to IGF-II degradation.

### Product Info

**Amount :** 50 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVRRSR GIVEECCFRS CDLALLETYC ATPAKSE

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  ( $1 \text{ IEU}/\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by FDC-P1 cell proliferation at  $\leq 15 \text{ ng/mL}$ ;  $\geq 6.7 \times 10^4 \text{ units/mg}$  (typical ED50 is 1-10 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialled to compensate for this loss.



