

## GFH14 Recombinant Human IGF-2

### Description

Insulin-like Growth Factor 2 (IGF-2) is an important fetal growth hormone made by theca cells during gestation. IGF-2 engages the IGF-1 receptor (IGF1R) to mediate embryonic growth. IGF-2 also binds the sink IGF-2 receptor (IGF2R) leading to IGF-2 degradation.

<b>Length</b>	67 aa
<b>Molecular Weight</b>	7.5 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P01344
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

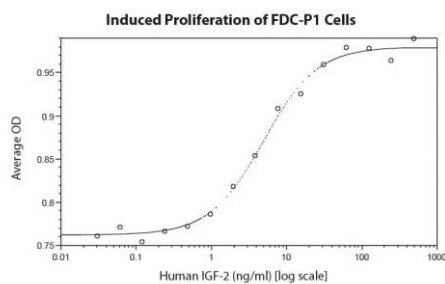
### Specifications

<b>Alternative Names</b>	Insulin-like Growth Factor 2, somatomedin A, IGF-II
<b>Biological Activity</b>	Human IGF-2 is fully biologically active when compared to standard. The activity is determined by the ability to induce mouse FDC-P1 cells proliferation and it is typically less than 15 ng/ml. This corresponds to an expected specific activity of $6.7 \times 10^4$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLELYC ATPAKSE

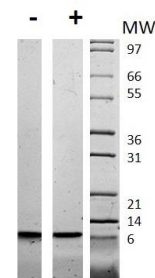
### Preparation and Storage

<b>Reconstitution</b>	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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of mouse FDC-P1 cells assay for Human IGF-2. Cell proliferation was measured to calculate the ED50, which is as expected less than 15 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human IGF-2 has a predicted Mw of 7.5 kDa.