

## RECOMBINANT HUMAN INSULIN LIKE GROWTH FACTOR-I

CATALOG NUMBER:	GF138	QUANTITY:	100 µg
LOT NUMBER:			
ALTERNATE NAMES:	IGF-1		
DESCRIPTION:	Insulin Like Growth Factor-I (IGF-I) is a polypeptide growth factor which stimulates the proliferation of a wide range of cell types including muscle, bone, and cartilage tissue. Human IGF-I is a 7.6 kDa protein containing 70 amino acid residues.		
SOURCE:	<i>E.coli</i>		
PURITY:	Greater than 98% by SDS-PAGE. Endotoxin level is less than 0.1 ng per µg (1EU/ug) of IGF-1.		
ACTIVITY:	Human IGF-I is fully biologically active when compared to standards. The ED <sub>50</sub> as determined by a cell proliferation assay using FDC-P1 cells is ≤10.0 ng/mL corresponding to a specific activity of ≥1 x 10 <sup>5</sup> units/mg.		
APPLICATIONS:	For most <i>in vitro</i> applications, IGF-I exerts its biological activity in the concentration range of 0.2 to 20.0 ng/mL. Responding cells are (partial list): bone, muscle cells, and CHO cells.		
PRESENTATION:	Lyophilized from sterile filtered 10 mM Sodium Phosphate, pH 6, containing no additives.		
STORAGE/HANDLING:	The lyophilized IGF-I, though stable at room temperature, is best stored at -20°C for up to 12 months from date of receipt. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other buffered solutions and stored at 4°C for one week or at -20° C for future use. Reconstituted IGF-I should be stored in undiluted aliquots at -20°C for up to six months. Avoid repeated freeze/thaw cycles.		

**Important Note:** During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

**For research use only; not for use as a diagnostic.**

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