

IGF2

Recombinant Human IGF-II, Media Grade

Catalog No.	OU100 OM001	Quantity:	100 µg 1.0 mg
Alternate Names:	Insulin-like growth factor II, Somatomedin A, T3M-11-derived growth factor		
Description:	<p>Human Insulin-like Growth Factor-II (IGF-II) shares structural homology with insulin and human IGF-I and plays a critical role in embryonic and fetal development via autocrine, paracrine and endocrine mechanisms. It is a mitogen and also has effects on cell migration and differentiation. IGF-II binds to the type I IGF receptor and the IGF-II/cation-independent mannose-6-phosphate receptor. Its actions are probably mediated through inducing signal transduction via one or both of these receptors. IGF-II also binds to each of the six IGF binding proteins (IGFBPs). This binding also regulates the biological function of IGF-II. IGF-II is highly conserved across species which suggests an important role for the peptide. Human IGF-II is present in high concentrations in normal adult human serum, although the function of this is unknown. IGF-II is also implicated in the pathophysiology of cancer, diabetes and obesity.</p> <p>Media grade human IGF-II is a high quality reagent at an economical cost to enable studies where higher quantities of peptide are required.</p>		
UniProt ID:	P01344		
Gene ID:	3481		
Source:	Expressed in <i>E.coli</i>		
Molecular Weight:	7469 ± 2 Daltons (67 aa)		
Purity:	> 85% by HPLC analysis		
Endotoxin Level:	< 0.1 EU/µg.		
State/Appearance:	Lyophilized from sterile-filtered 0.1M acetic acid and stored under nitrogen at a slight vacuum.		
Biological Activity:	ED ₅₀ ≤ 150 ng/ml		
N-terminal Sequence:	Confirmed N-terminal 5 residues		
Reconstitution:	See Protocol 1000, Handling of IGF-I, IGF-II and IGF analogs.		
Storage & Stability:	Lyophilized protein is stable at 2-8°C for up to 1 year.		

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