
Product Data Sheet

Product Name: IGF2 Mouse
 Cat. No.: GP26036
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	Somatomedin-A, IGF2, INSIGF, pp9974, C11orf43, FLJ22066, FLJ44734		
Amino Acid Sequence	AYGPGETLCG GELVDTLQFV CSDRGFYFSR PSSRANRRSR GIVEECCFRS CDLALLETYC ATPAKSE		
Solubility	It is recommended to reconstitute the lyophilized IGF2 in sterile water at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile (0.2 μ) filtered solution containing 0.1 % trifluoroacetic acid (TFA).		

Introduction

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

Biological Activity

The ED50 as determined by FDC-P1 cell proliferation is ≤ 50 ng/mL, corresponding to a specific activity of $\geq 2.0 \times 10^4$ units/mg.

Stability

Lyophilized IGF2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IGF2 Human should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

IGF2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, monomeric polypeptide chain containing 67 amino acids and having a total molecular mass of 7.4kDa. The IGF2 is purified by proprietary chromatographic techniques.

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