
Product Data Sheet

Product Name: GDF11 Human
Cat. No.: GP20312
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Growth Differentiation Factor 11; GDF-11; Bone Morphogenetic Protein 11; BMP11.		
Amino Acid Sequence	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL		
Solubility	It is recommended to reconstitute the lyophilized GDF11 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing 0.1% Trifluoroacetic Acid (TFA).		

Introduction

GDF-11 belongs to the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. GDF-11 is a central developmental factor which controls muscular and neural development. In adults, GDF-11 encourages cardiac hypertrophy reverse by the revival of cardiomyocytes.

Biological Activity

The ED₅₀ as determined by the ability to inhibit alkaline phosphatase activity in ATDC5 cells, is 0.2-0.3ng/ml, corresponding to a specific activity of 5 x 10⁶units/mg.

Stability

Lyophilized GDF11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GDF11 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

GDF11 Human Recombinant produced in E.Coli is a non-glycosylated homodimer containing 2x109 amino acids and having a total molecular mass of 24.9kDa.

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