
Product Data Sheet

Product Name: GDF10 Human
 Cat. No.: GP20311
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Bone morphogenetic protein 3b; BMP-3b; Growth/differentiation factor 10; GDF-10; Bone-inducing protein; BIP; GDF10; BMP3B.		
Amino Acid Sequence	MQWDEPRVCS RRYLKVDFAD IGWNEWIISP KSFDAYYCAG ACEFPMPKIV RPSNHATIQS IVRAVGIIPG IPEPCCVPDK MNSLGVLFLD ENRNVLKVY PNMSVDTCAC R.		
Formulation	The GDF10 solution (1mg/ml) contains 10mM Sodium citrate (pH 3.5), 1mM DTT, 40% glycerol and 0.1M NaCl.		

Introduction

GDF10 is a member of the BMP family and the TGF-beta superfamily. GDF10 is expressed in femur, brain, lung, skeletal, muscle, pancreas and testis, and has a role in head formation and possibly multiple roles in skeletal morphogenesis. In humans, GDF10 mRNA is found in the cochlea and lung of fetuses, and in testis, retina, pineal gland, and other neural tissues of adults. The BMP family members are regulators of cell growth and differentiation in both embryonic and adult tissues. These proteins are characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing 7 conserved cysteine residues.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GDF10 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 111 amino acids (369-478 a.a.) and having a total molecular mass of

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12.5 kDa. GDF10 is purified by proprietary chromatographic techniques.

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