

GDF10 Human

Description: 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 12.5 kDa. GDF10 is purified by proprietary chromatographic techniques.

Catalog #: CYPs-666

For research use only.

Synonyms: Bone morphogenetic protein 3b, BMP-3b, Growth/differentiation factor 10, GDF-10, Bone-inducing protein, BIP, GDF10, BMP3B.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MQWDEPRVCS RRYLKVDFAD IGWNEWIISP KSFDAYYCAG
ACEFPMPKIV RPSNHATIQS IVRAVGIIPIG IPEPCCVPDK MNSLGVFLFD ENRNVLKVY
PNMSVDTCAC R.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The GDF10 solution (0.5mg/ml) contains 10mM Sodium citrate (pH 3.5), 1mM DTT, 40% glycerol and 0.1M NaCl.

Stability:

GDF10 although stable 4°C for 4 weeks, should be stored desiccated 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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