

## Recombinant Human GDF10 protein

**Cat. No.** GDF10-27683TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human GDF10(369-478aa) was expressed in E. coli.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 369-478 a.a.   |
| <b>Description</b>      | GDF10 (Growth differentiation factor 10) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. It is expressed in femur, brain, lung, skeletal, muscle, pancreas and testis, and it plays a role in head formation and may have multiple roles in skeletal morphogenesis. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. |
| <b>Form</b>             | Liquid. In 10 mM sodium citrate (pH 3.5) containing 10% glycerol.  |
| <b>Molecular Mass</b>   | 12.5 kDa (111aa), confirmed by MALDI-TOF.  |
| <b>AA Sequence</b>      | MQWDEPRVCS RRYLKVDFAD IGWNEWIISP KSFDAYYCAG ACEFPMPKIV<br>RPSNHATIQS IVRAVGIIPIG IPEPCCVPDK MNSLGVLFLDENRNVVLKVY<br>PNMSVDTCAC R   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |  |
|----------------------------|--|
| <b>Purity</b>              | > 95% by SDS - PAGE  |
| <b>Storage</b>             | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)   |
| <b>GENE INFORMATION</b>    |  |
| <b>Gene Name</b>           | GDF10 growth differentiation factor 10 [ Homo sapiens ]  |
| <b>Official Symbol</b>     | GDF10  |
| <b>Synonyms</b>            | GDF10; growth differentiation factor 10; bone morphogenetic protein 3B; BMP 3b; BIP; GDF-10; bone-inducing protein; BMP3B; BMP-3b;   |
| <b>Gene ID</b>             | 2662   |
| <b>mRNA Refseq</b>         | NM_004962  |
| <b>Protein Refseq</b>      | NP_004953  |
| <b>MIM</b>                 | 601361   |
| <b>UniProt ID</b>          | P55107   |
| <b>Chromosome Location</b> | 10q11.22   |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem;   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Function**

cytokine activity; growth factor activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA