

# Recombinant Human GDF11, His-tagged

**Cat. No.** GDF11-12H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human GDF11, fused to His-tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 299-407aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. 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. Studies in mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development. |
| <b>Form</b>             | Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 14.8kDa (132aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSNLGLDCD EHSSESRCR YPLTVDFEAF<br>GWDWIIAPKR YKANYCSGQC EYMFMQKYPH THLVQQANPR GSAGPCCTPT<br>KMSPINMLYF NDKQQIYGK IPGMVVDRCG CS                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 85% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>  | SDS-PAGE                                                                                                                                           |
| <b>Storage</b>       | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 1mg/ml (determined by Bradford assay)                                                                                                              |

## GENE INFORMATION

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GDF11 growth differentiation factor 11 [ Homo sapiens ]                                                                         |
| <b>Official Symbol</b>     | GDF11                                                                                                                           |
| <b>Synonyms</b>            | GDF11; growth differentiation factor 11; BMP11; BMP-11; bone morphogenetic protein 11; GDF-11; growth/differentiation factor 11 |
| <b>Gene ID</b>             | 10220                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_005811                                                                                                                       |
| <b>Protein Refseq</b>      | NP_005802                                                                                                                       |
| <b>MIM</b>                 | 603936                                                                                                                          |
| <b>UniProt ID</b>          | O95390                                                                                                                          |
| <b>Chromosome Location</b> | 12q13.2                                                                                                                         |
| <b>Function</b>            | cytokine activity; growth factor activity                                                                                       |

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