

## Recombinant Human GDF3

**Cat. No.** GDF3-246H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GDF3 was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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. |
| <b>Form</b>             | Lyophilized. This recombinant protein was lyophilized from a 0.2 µm filtered solution in hydrogen chloride (HCl).                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | The predicted molecular weight of Recombinant Human GDF-3 is Mr 12.9 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 18 kDa, reducing conditions kDa.                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | aaipvpklsc knlchrhqlf infrdlgwhk wiiapkgfma nychgecpfs ltislssny afmqalmhav dpeipqavci ptklspism l yqdnndnvil rhyedmvvde cgcg                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | <1.0 EU/g as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >90% by SDS-PAGE and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                            |

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**Storage**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

**GENE INFORMATION**

**Gene Name** GDF3 growth differentiation factor 3 [ Homo sapiens (human) ]

**Official Symbol** GDF3

**Synonyms** GDF3; growth differentiation factor 3; KFS3; MCOP7; MCOPCB6; growth/differentiation factor 3; GDF-3

**Gene ID** 9573

**mRNA Refseq** NM\_020634

**Protein Refseq** NP\_065685

**MIM** 606522

**UniProt ID** Q9NR23

**Chromosome Location** 12p13.1

**Function** cytokine activity; growth factor activity; protein kinase binding; transforming growth factor beta receptor binding

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