

## Active Recombinant Human GDF2 Protein

Cat. No. GDF2-019H Lot. No. (See product label)

### SPECIFICATION

|                                 |   |
|---------------------------------|---|
| <b>Product Overview</b>         | The mature recombinant human BMP-9 protein consists of 110 amino acids (320-429) without tag was expressed in E. coli.  |
| <b>Species</b>                  | Human   |
| <b>Source</b>                   | E.coli  |
| <b>ProteinLength</b>            | 320-429 a.a.  |
| <b>Description</b>              | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates cartilage and bone development, angiogenesis and differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia. |
| <b>Bio-activity</b>             | Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 0.4-1.6 ng/mL.   |
| <b>Molecular Mass</b>           | 12 kDa  |
| <b>Product-Related Proteins</b> | 320-429   |

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|                       |  |
|-----------------------|--|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein as determined by the LAL method |
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                           |
| <b>Storage</b>        | At -80 centigrade. Avoid repeated freeze-thaw cycles.      |
| <b>Storage Buffer</b> | PBS  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | GDF2 growth differentiation factor 2 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | GDF2  |
| <b>Synonyms</b>        | GDF2; growth differentiation factor 2; BMP9; HHT5; BMP-9; growth/differentiation factor 2; bone morphogenetic protein 9 |
| <b>Gene ID</b>         | 2658  |
| <b>mRNA Refseq</b>     | NM_016204   |
| <b>Protein Refseq</b>  | NP_057288   |
| <b>MIM</b>             | 605120  |
| <b>UniProt ID</b>      | Q9UK05  |

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