

# Active GMP Recombinant Human GDF11 Protein

**Cat. No.** GDF11-137HG    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human GDF11, Asn299-Ser407, was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.                    |
| <b>Species</b>                      | Human                                                                                                                                                          |
| <b>Source</b>                       | E.coli                                                                                                                                                         |
| <b>ProteinLength</b>                | 299-407 a.a.                                                                                                                                                   |
| <b>Form</b>                         | Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.                                                                                           |
| <b>Bio-activity</b>                 | Measured by its ability to induce hemoglobin expression in K562 human chronic myelogenous leukemia cells. Schwall, R.H. et al. (1991) Method Enzymol. 198:340. |
| <b>Molecular Mass</b>               | Predicted Molecular Mass: 12.6 (monomer) kDa<br>SDS-PAGE: 12 kDa, reducing conditions                                                                          |
| <b>N-terminal Sequence Analysis</b> | Met-Asn299-Leu-Gly-Leu-Asp-(Cys)-Asp-Glu-His                                                                                                                   |
| <b>Endotoxin</b>                    | <0.01 EU per 1 µg of the protein by the LAL method.                                                                                                            |
| <b>Purity</b>                       | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                   |

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>           | <p>Avoid repeated freeze-thaw cycles.</p> <p>12 months, -20 to -70 centigrade as supplied.</p> <p>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.</p> <p>3 months, -20 to -70 centigrade under sterile conditions after reconstitution.</p>                                                                                   |
| <b>Reconstitution</b>    | Reconstitute at 100 µg/mL in 4 mM HCl.                                                                                                                                                                                                                                                                                                                  |
| <b>Quality Statement</b> | Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing. |
| <b>Shipping</b>          | The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.                                                                                                                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">GDF11 growth differentiation factor 11 [ Homo sapiens ]</a>                                                                  |
| <b>Official Symbol</b> | <a href="#">GDF11</a>                                                                                                                    |
| <b>Synonyms</b>        | GDF11; growth differentiation factor 11; growth/differentiation factor 11; BMP 11; GDF-11; bone morphogenetic protein 11; BMP11; BMP-11; |
| <b>Gene ID</b>         | <a href="#">10220</a>                                                                                                                    |
| <b>mRNA Refseq</b>     | <a href="#">NM_005811</a>                                                                                                                |
| <b>Protein Refseq</b>  | <a href="#">NP_005802</a>                                                                                                                |

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| MIM | 603936 |
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| UniProt ID | O95390 |
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