

## Recombinant Human GDF11 Protein

**Cat. No.** GDF11-155H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Growth differentiation factor 11 is produced by our Mammalian expression system and the target gene encoding Asn299-Ser407 is expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 299-407 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Growth/differentiation factor 11(GDF-11) is a secreted protein, which belongs to the transforming growth factor beta superfamily. GDF-11 controls anterior-posterior patterning by regulating the expression of Hox genes. The secreted signal acts globally to specify positional identity along the anterior/posterior axis during development. GDF11 has been shown to suppress neurogenesis through a pathway similar to that of myostatin, including stopping the progenitor cell-cycle during G-phase. The similarities between GDF11 and myostatin imply a likelihood that the same regulatory mechanisms are used to control tissue size during both muscular and neural development. |
| <b>Form</b>             | Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | Asn299-Ser407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Endotoxin</b>        | Less than 0.1 ng/ug (1 EU/ug).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                          |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | >95%                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | <p>Lyophilized protein should be stored at &lt; -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> |
| <b>Reconstitution</b>    | <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>                                                                                                                                           |
| <b>Quality Statement</b> | Purity: greater than 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                               |
| <b>Shipping</b>          | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GDF11 growth differentiation factor 11 [ Homo sapiens (human) ]                             |
| <b>Official Symbol</b> | GDF11                                                                                       |
| <b>Synonyms</b>        | Growth/differentiation factor 11; GDF-11; Bone morphogenetic protein 11; BMP-11; VHO; BMP11 |
| <b>Gene ID</b>         | 10220                                                                                       |
| <b>mRNA Refseq</b>     | NM_005811.5                                                                                 |
| <b>Protein Refseq</b>  | NP_005802.1                                                                                 |

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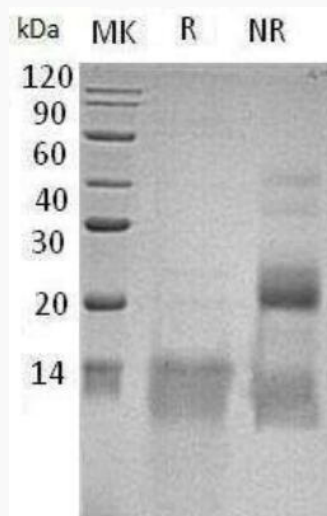
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MIM 603936

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SDS-PAGE



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