

## Recombinant Human NOG protein(Met1-Cys232), hFc-tagged

**Cat. No.** NOG-817H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NOG (NP_005441.1) (Met 1-Cys 232) was expressed in HEK293, fused with the Fc region of Human IgG1 at the C-terminus.                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-232 a.a.                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                           |
| <b>Bio-activity</b>     | Measured by its ability to inhibit BMP4-induced alkaline phosphatase production by MC3T3-E1 cells. The ED50 for this effect is typically 0.1-0.6 µg/mL in the presence of 25 ng/mL of hBMP4.                                                                                                                                                             |
| <b>Molecular Mass</b>   | The recombinant human Noggin/Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. Each monomer comprises 443 amino acids and has a predicted molecular mass of 49.8 kDa. As a result of glycosylation, the apparent molecular mass of rhNoggin/Fc monomer is approximately 58-62 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NOG noggin [ Homo sapiens ]                                                                                                        |
| <b>Official Symbol</b> | NOG                                                                                                                                |
| <b>Synonyms</b>        | NOG; noggin; SYM1, symphalangism 1 (proximal) , synostoses (multiple) syndrome 1 , SYNS1; symphalangism 1 (proximal); SYM1; SYNS1; |
| <b>Gene ID</b>         | 9241                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_005450                                                                                                                          |
| <b>Protein Refseq</b>  | NP_005441                                                                                                                          |
| <b>MIM</b>             | 602991                                                                                                                             |
| <b>UniProt ID</b>      | Q13253                                                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA