

## 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

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