

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	1-232 a.a.
Form	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.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	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.
Reconstitution	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

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

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