

Active Recombinant Human NOG Protein (Gln28-Cys232), C-Fc tagged, Animal-free, Carrier-free

Cat. No. NOG-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOG Protein (Gln28-Cys232) with C-Fc tag was expressed in HEK293 and Animal-free as well as Carrier-free.
Species	Human
Source	HEK293
ProteinLength	Gln28-Cys232
Description	Noggin is a 46.2 kDa bioactive protein, which exists as a disulfide-linked homodimer (each chain 23.1 kDa). Noggin binds members of the transforming Growth Factors-beta (TGF beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP-4), which inactivates their activities. As a extracellular antagonist of BMP proteins, Noggin involves in the development of many body tissues, including nerve tissue, muscles, and bones. In addition, Noggin is able to inhibit chondrocyte differentiation through its interaction with GDF5.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.05 µg/mL in the presence of 50 ng/mL of recombinant human BMP-4.
Molecular Mass	The protein has a calculated MW of 49.11 kDa.

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	The protein migrates as 58 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	NOG noggin [Homo sapiens (human)]
Official Symbol	NOG
Synonyms	NOG; noggin; SYM1, symphalangism 1 (proximal) , synostoses (multiple) syndrome 1 , SYNS1; symphalangism 1 (proximal); SYM1; SYNS1;
Gene ID	9241

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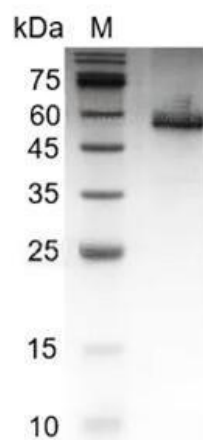
mRNA Refseq [NM_005450](#)

Protein Refseq [NP_005441](#)

MIM [602991](#)

UniProt ID [Q13253](#)

**SDS-PAGE analysis
of recombinant
human Noggin**



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