

Active Recombinant Human NOG Protein, Animal Free

Cat. No. NOG-42H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOG Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Noggin belongs to a group of diffusible proteins that bind to ligands of the TGF- β family, and regulate their activity by inhibiting their access to signaling receptors. Noggin is expressed in defined areas of the adult central nervous system and peripheral tissues such as lung, skeletal muscle and skin. Noggin has been shown to modulate the activities of other BMPs, which is required for growth and patterning of the neural tube and somite, and essential for cartilage morphogenesis and joint formation. Noggin also inhibits chondrocyte differentiation through its interaction with GDF5.
Bio-activity	The activity was measured by the inhibition of BMP-4 induced alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line).
Molecular Mass	65 kDa
Endotoxin	<0.5 EU/ μ g
Purity	High Purity, >95% by SDS-PAGE

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Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

GENE INFORMATION

Gene Name	NOG noggin [Homo sapiens (human)]
Official Symbol	NOG
Synonyms	NOG; noggin; SYM1; SYNS1; SYNS1A; noggin; symphalangism 1 (proximal)
Gene ID	9241
mRNA Refseq	NM_005450
Protein Refseq	NP_005441
MIM	602991
UniProt ID	Q13253

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