

## Noggin/NOG Protein, Human, Recombinant (E. coli)

### General Information

Synonyms:	Noggin;NOG
Protein Construction:	M+28-232 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q13253
Molecular Weight:	23.2 kDa (Predicted)
AA Sequence:	M+QHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGGAAGG AEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKLRRKLQMWLWSQTFPCVLYAWNDLGSRF WPRYVKVGVSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPYIPISECKCSC

### QC Testing

Biological Activity:	Fully biologically active when compared to standard. The ED50 as determined by inhibiting BMP-4- induced alkaline phosphatase production of murine ATDC5 cells is less than 3.0 ng/ml, corresponding to a specific activity of $> 3.3 \times 10^5$ IU/mg in the presence of 5 ng/ml rHuBMP-4.
Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered 30 % acetonitrile, 0.1 % TFA

### Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in 10 mM HCl. The product concentration should not be less than 100 $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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