

RPPB0804

Product Information Protein Information

Product SKU:

RPPB0804

Accession:

Q13253

Host:

Sf9, Baculovirus cells.

Protein description:

Noggin produced in Sf9 Baculovirus cells is a glycosylated homodimer containing 205 amino acids and having a molecular mass of 47.9kDa under non-reducing conditions. (Molecular size on SDS-PAGE will appear at approximately 50-80kDa). Noggin is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

SYM1, SYNS1, NOG.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4 and 0.02 % Tween-20 and 5% trehalose.

Purity:

Greater than 95.0% as determined by:(a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Noggin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Noggin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Noggin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid Sequence:

QHYLHIRPAP SDNLPLVDLI EHPDPIFDPK EKDLNETLLR SLLGGHYDPG FMATSPPEDR PGGGGGAAGG
AEDLAELDQL LRQRPSGAMP SEIKGLEFSE GLAQGKKQRL SKKLRRKLQM WLWSQTFPCV LYAWNDLGSR
FWPRYVKVGS CFSKRCSVP EGMVCKPSKS VHLLVLRWRC QRRGGQRCGW IPIQYPISE CKCSC.

Biological Activity:

Measured by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells was found to be 0.04-0.2 µg/mL in the presence of 50 ng/mL of Recombinant Human BMP-4.