

Human Noggin Recombinant Protein



RPPB0802

Product Information Protein Information

Product SKU:

RPPB0802

Accession:

Q13253

Host:

Escherichia Coli.

Protein description:

Noggin Human Recombinant produced in E.Coli is a non-glycosylated, non-disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains, having a total molecular mass of approximately 46.3kDa (each chain 23.15kDa). 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 solution in 30% CH3CN, 0.1% TFA.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Solubility:

It is recommended to be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10mM HAC to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKKDLNETLLRSLGGHYDPGFMATSPPEDRPGGGGGAAGGAEDLA
ELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKLRRKLMWLWSQTFCPVLYAWNDLGSRFWPRYVKVGS
CFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPIQYPII SECKCSC.

Biological Activity:

The ED50 was determined by its ability to inhibit 5.0ng/ml of BMP-4 induced alkaline phosphatase production by murine ATDC-5 cells. The expected ED50 for this effect is < 3ng/ml of Noggin, corresponding to a Specific Activity of 3.3x10⁵units/mg.