

RMCH172

Recombinant Noggin, Human, AF

☐ 5ug;20ug;100ug;500ug;

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Synonym/Alternative name(s):

NOG, Noggin, SYM1, symphalangism 1 (proximal), synostoses (multiple) syndrome 1, SYNS1, SYNS1A

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.

Protein Description:

Noggin is a bioactive protein intended for use in cell culture applications. Noggin protein which binds to ligands of the TGF-β family and regulates their activity by inhibiting their access to signaling receptors. Noggin was originally identified as a BMP-4 antagonist whose action is critical for proper formation of the head and other dorsal structures.

Protein Accession : Q13253.1**Gene ID :** 9241**Expression Sequence:**

MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEDLNELTLLRSLGGHYDPGFMATSPPEDRPGGGGGAAGGAEDLAELDQLLRQRPSGA
MPSEIKGLEFSEGLAQGKKQRLSKLRRKLQMWLWSQTFCPVLYAWNLDGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTV
LRWRCQRRGGQRCGWIPYIPISECKCSC with polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus**Species :** Human**Reactivity :** Human**Expression Host :** Escherichia coli**Source :** E. coli**Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 24 kDa**Formulation:**

The protein was lyophilized from a solution containing 0.1% sarkosyl in 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice**Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or

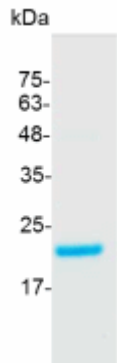
stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant human Noggin