

Product Sheet

Noggin, human recombinant

Catalog #	NOGG-050; NOGG-250; NOGG-1000
Description	<p>Noggin has been shown to be a high-affinity binding protein to BMP and antagonizes BMP bio-activities. It can be added to cell culture medium for embryonic stem cells to maintain pluripotency.</p> <p>The recombinant human Noggin comprises 216 amino acids after removal of the signal peptide and has a predicted molecular mass of 24.6 kDa. As a result of glycosylation, it migrates as an approximately 30 kDa band in SDS-PAGE under reducing conditions</p> <p>StemRD's Noggin is made in human 293 cells, which renders human-specific post-translational modifications. We purified this product through a series of chromatography.</p>
Source	Human 293 cells
Formulation	Lyophilized in sterile filtered solution of PBS, pH7.4, 10% trehalose (stabilizer)
Reconstitution	Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in sterile H ₂ O. Further dilutions should be made in buffer or medium containing carrier proteins, such as albumin or serum.
Stability	The lyophilized protein is stable for at least 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze/thaw.
Purity	Greater than 95% by SDS-PAGE
Biological Activity	The activity was determined by using a reporter gene assay in human 293 cells for the inhibition of activity of BMP4 (2.5 ng/mL). The EC50 ranges from 25 - 100 ng/mL.
Country of Origin	USA

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