

Product datasheet for **TP723334**

Nog (NM_008711) Mouse Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse noggin (Nog). |
| Species: | Mouse |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MQHYLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RLLGGHYDP GFMATSPPED RPGGGGGPAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRRWR CQRRGGQRCG WIPIQYPIIS ECKCSC |
| Tag: | Tag Free |
| Predicted MW: | 46.4 kDa |
| Concentration: | lot specific |
| Purity: | >95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2 |
| Bioactivity: | Determined by its ability to inhibit 5.0 ng/ml of BMP-4 induced alkaline phosphatase production by ATDC5 chondrogenic cells. The expected ED50 for this effect is 1.0-2.0 ng/ml of Noggin. |
| Endotoxin: | Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg) |
| Storage: | Store at -80°C. |
| Stability: | Stable for at least 6 months from date of receipt under proper storage and handling conditions. |
| RefSeq: | NP_032737 |
| Locus ID: | 18121 |
| UniProt ID: | P97466 , A2RTJ4 |
| RefSeq Size: | 1922 |
| Cytogenetics: | 11 54.34 cM |
| RefSeq ORF: | 696 |



[View online »](#)

Summary:

Essential for cartilage morphogenesis and joint formation. Inhibitor of bone morphogenetic proteins (BMP) signaling which is required for growth and patterning of the neural tube and somite (PubMed:9585504, PubMed:9603738). Inhibits chondrocyte differentiation through its interaction with GDF5 and, probably, GDF6 (By similarity).[UniProtKB/Swiss-Prot Function]