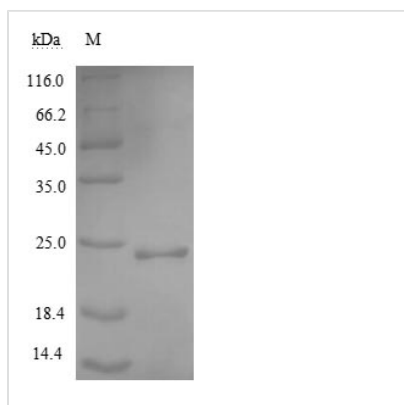




# Recombinant Human Noggin protein (NOG) (Active)

|                            |                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-AP003011HU                                                                                                                                                                                                                                                                               |
| <b>Abbreviation</b>        | Recombinant Human NOG protein (Active)                                                                                                                                                                                                                                                       |
| <b>Uniprot No.</b>         | Q13253                                                                                                                                                                                                                                                                                       |
| <b>Form</b>                | Lyophilized powder                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>      | Lyophilized from a 0.2 µm filtered 30 % acetonitrile, 0.1 % TFA                                                                                                                                                                                                                              |
| <b>Product Type</b>        | Growth Factor                                                                                                                                                                                                                                                                                |
| <b>Immunogen Species</b>   | Homo sapiens (Human)                                                                                                                                                                                                                                                                         |
| <b>Biological Activity</b> | Fully biologically active when compared to standard. The ED50 as determined by inhibiting BMP-4- induced alkaline phosphatase production of murine ATDC5 cells is less than 3.0 ng/ml, corresponding to a specific activity of $>3.3 \times 10^5$ IU/mg in the presence of 5 ng/ml rHuBMP-4. |
| <b>Purity</b>              | ≥95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                              |
| <b>Sequence</b>            | M+QHYLEHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSLGGHYDP<br>GFMATSPPED RPGGGGAAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS<br>EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS<br>RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHSLTVLRWR<br>CQRRGGQRCG WIPIQYPIIS ECKCSC                                              |
| <b>Research Area</b>       | Stem Cells?                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | E.Coli                                                                                                                                                                                                                                                                                       |
| <b>Target Names</b>        | NOG                                                                                                                                                                                                                                                                                          |
| <b>Expression Region</b>   | 28-232aa                                                                                                                                                                                                                                                                                     |
| <b>Notes</b>               | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                          |
| <b>Tag Info</b>            | Tag-Free                                                                                                                                                                                                                                                                                     |
| <b>Mol. Weight</b>         | 23.2 kDa                                                                                                                                                                                                                                                                                     |
| <b>Protein Length</b>      | Full Length of Mature Protein                                                                                                                                                                                                                                                                |
| <b>PubMed ID</b>           | 7666191; 15489334; 21976273; 24098149; 12478285; 10080184; 11846737;<br>11545688; 12089654; 11857750; 15770128; 17668388; 20503332                                                                                                                                                           |
| <b>Image</b>               |                                                                                                                                                                                                                                                                                              |

**Endotoxin**

Less than 1.0 EU/μg as determined by LAL method.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.