Human Noggin (Fc Tag) recombinant protein

Catalog Number: 503229

General Information

Protein Construction

A DNA sequence encoding the human Noggin precursor (NP_005441.1) (Met 1-Cys 232) was fused with the Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to inhibit BMP-2 induced alkaline phosphatase production by MC3T3-E1 cells.
The ED_{50} for this effect is typically 1.5-2.0 µg /mL in the presence of 0.25-0.5 µg/mL of BMP-2.
2. Measured by its ability to inhibit BMP4 induced alkaline phosphatase production by MC3T3-E1 cells.
The ED_{50} for this effect is typically 0.1-0.6 µg/mL in the presence of 50 ng/mL of hBMP4.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Gln 28

Molecular Mass

The recombinant human Noggin/Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. Each monomer comprises 443 amino acids and has a predicted molecular mass of 49.8 kDa. As a result of glycosylation, the apparent molecular mass of rhNoggin/Fc monomer is approximately 58-62 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

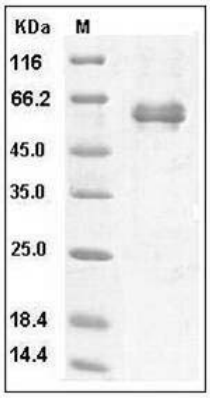
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human Noggin / NOG Protein (Fc Tag) SDS-PAGE