# Mouse GREM1 (His Tag) recombinant protein

Catalog Number: 502721



## **General Information**

## Gene Name Synonym

Cysteine knot superfamily 1, BMP antagonist 1; Down-regulated in Mos-transformed cells protein

#### **Protein Construction**

A DNA sequence encoding the mouse GREM1 (O70326) (Met1-Asp184) was fused with a polyhistidine tag at the C-terminus.

## **Organism**

Mouse

# **Expression Host**

Baculovirus-Insect Cells

# QC Testing

## **Activity**

Measured by its ability to inhibit recombinant human BMP4 induced alkaline phosphatase production by MC3T3-E1 cells.

The  $ED_{50}$  for this effect is typically 1-7  $\mu$ g/mL in the presence of 50 ng/mL of recombinant human BMP4.

## **Purity**

> 97 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

## **Stability**

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

## Predicted N terminal

Lys 25

#### **Molecular Mass**

The recombinant mouse GREM1 consists of 171 amino acids and has a calculated molecular mass of 19.7 kDa. The recombinant protein migrates as an approximately 25 kDa band in SDS-PAGE under reducing conditions.

#### **Formulation**

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly, 0.5mM EDTA, 3mM DTT

- $1.\,5$  % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

# **Usage Guide**

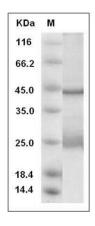
## **Storage**

Store it under sterile conditions at -20°C to -80°C. 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**



Mouse Gremlin 1 / GREM1 Protein (His Tag) SDS-PAGE