

# Recombinant Mouse Grem1 Protein

**Cat. No.** Grem1-7380M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Gremlin-1 / GREM1(aa. 160) without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Cytokine that may play an important role during carcinogenesis and metanephric kidney organogenesis, as BMP a antagonist required for early limb outgrowth and patterning in maintaining the FGF4-SHH feedback loop. Down-regulates the BMP4 signaling in a dose-dependent manner. Antagonist of BMP2; inhibits BMP2-mediated differentiation of osteoblasts (in vitro). Acts as inhibitor of monocyte chemotaxis. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 28 kDa                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MKKKGSQGAIPPPDKAQHNDSEQTQSPPQPGSRTRGRGQGRGTAMPGEEVLESS<br>QEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGCNSFYIPRHIRKEE<br>GSFQSCSFCKPKKFTMMVTLNCPQLPPTKKKRVTRVKQCRCISIDLD                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | < 0.1 ng/μg of Grem1                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 95 % by SDS-PAGE and Silver staining                                                                                                                                                                                                                                                                                                                                                                             |

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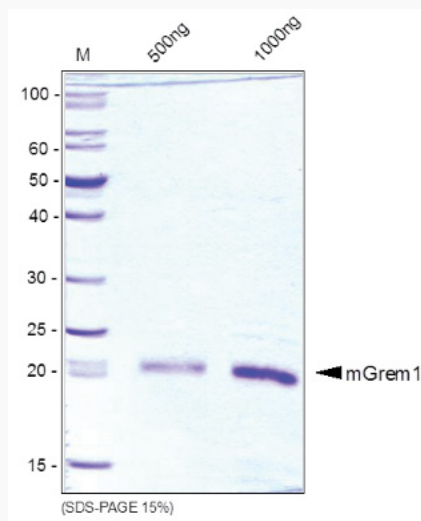
|                         |                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Shelf life: one year from despatch.                                                                                                                                                                                                          |
| <b>Storage</b>          | The lyophilized protein is stable at room temperature for up to 1 week or at -20 centigrade for longer. Following reconstitution store (in aliquots) at -20 centigrade. Avoid repeated freezing and thawing.                                 |
| <b>Storage Buffer</b>   | 50 mM acetic acid without stabilizer                                                                                                                                                                                                         |
| <b>Reconstitution</b>   | Mouse Grem1 should be reconstituted in 50 mM acetic acid or water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions.                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Grem1 gremlin 1, DAN family BMP antagonist [ Mus musculus (house mouse) ]                                                                                                                                                                    |
| <b>Official Symbol</b>  | Grem1                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | Grem1; gremlin 1, DAN family BMP antagonist; Dr; Id; Drm; gre; Grem; Cktsf1b; Cktsf1b1; gremlin-1; cysteine knot superfamily 1, BMP antagonist 1; down-regulated in Mos-transformed cells protein; down-regulated in v-mos-transformed cells |
| <b>Gene ID</b>          | 23892                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_011824                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_035954                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | O70326                                                                                                                                                                                                                                       |

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## SDS-PAGE



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