





## Recombinant Rat Gremlin-1 (Grem1)

<b>Product Code</b>	CSB-EP009892RAc7
Relevance	Cytokine that may play an important role during carcinogenesis and metanephric kidney organogenesis, as a BMP 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. Can inhibit the growth or viability of normal cells but not transformed cells when is overexpressed.
Abbreviation	Recombinant Rat Grem1 protein
Storage	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.
Uniprot No.	O35793
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	KKKGSQGAIPPPDKAQHNDSEQTQSPPQPGSRTRGRGQGRGTAMPGEEVLE SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPR HIRKEEGSFQSCSFCKPKKFTTMMVTLNCPELQPPTKKKRVTRVKQCRCISIDL D
Research Area	Cardiovascular
Source	E.coli
Source Target Names	E.coli Grem1
Target Names	Grem1 Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mos-
Target Names Protein Names	Grem1  Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mostransformed cells protein Cktsf1b1, Drm
Target Names Protein Names Expression Region	Grem1  Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mostransformed cells protein Cktsf1b1, Drm  25-184aa  Repeated freezing and thawing is not recommended. Store working aliquots at
Target Names Protein Names  Expression Region Notes	Grem1  Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mostransformed cells protein Cktsf1b1, Drm  25-184aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Target Names Protein Names  Expression Region Notes  Tag Info	Grem1  Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mostransformed cells protein Cktsf1b1, Drm  25-184aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  C-terminal 6xHis-tagged
Target Names Protein Names  Expression Region Notes  Tag Info Mol. Weight	Grem1  Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mostransformed cells protein Cktsf1b1, Drm  25-184aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  C-terminal 6xHis-tagged  20.2 kDa



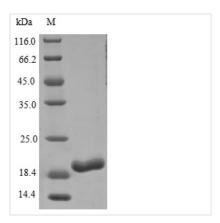
## **CUSABIO TECHNOLOGY LLC**

Tel: +1-301-363-4651 

☐ Email: cusabio@cusabio.com ☐ Website: www.cusabio.com ☐







(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## 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**

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