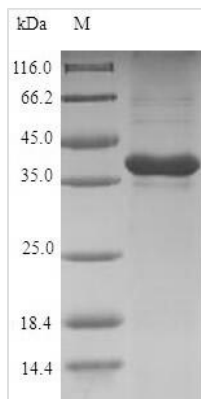




Recombinant Rat Gremlin-1 (Grem1)

Product Code	CSB-EP009892RA
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 (By similarity). 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
Alias	Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mos-transformed cells protein
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KKKGSQGAIPPPDKAQHNDSEQTQSPPQPGSRTRGRGQGGRGTAMPGEEVLE SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGCNSFYIPR HIRKEEGSFQSCSFCKPKKFTTMMVTLNCPQLQPPTKKKRVT RVKQCRCISIDL D
Research Area	Signal Transduction
Source	E.coli
Target Names	Grem1
Protein Names	Recommended name: Gremlin-1 Alternative name(s): Cysteine knot superfamily 1, BMP antagonist 1 Down-regulated in Mos-transformed cells protein
Expression Region	25-184aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	34.2kDa
Protein Length	Full Length of Mature Protein
Image	



(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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