Recombinant Mouse Grem1 protein, His-tagged

Cat. No. Grem1-315M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Grem1 protein(Lys25~Asp184), fused with N-terminal His tag, was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Lys25~Asp184
Form	Lyophilized from PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 month.
Bio-activity	Gremlin (GREM1) is an inhibitor in the TGF beta signaling pathway. GREM1 and other BMP antagonists are important in the survival of cancer stroma survival and proliferation in some cancers. The protein expression is found in many cancers and is thought to play important roles in uterine cervix, lung, ovary, kidney, breast, colon, pancreas, and sarcoma carcinomas. A proliferation assay was conducted to detect the bioactivity of recombinant mouse GREM1 using A549 cells. Briefly, A549 cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM prior to the addition of various concentrations of GREM1. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly,10µ of CCK-8

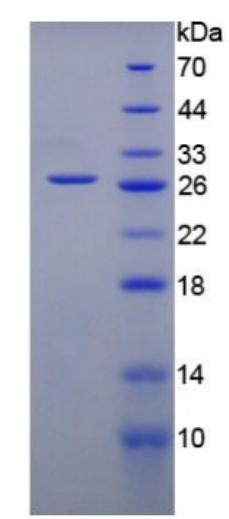
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	solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of A549 cells after incubation with GREM1 for 96h observed by inverted microscope was shown in Figure. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant GREM1 for 96h. It was that GREM1 significantly increased cell viability of A549 cells.
Molecular Mass	24.9kDa
Endotoxin	<1.0EU per 1mL (determined by the LAL method)
Purity	>92%

GENE INFORMATION

Official Symbol	Grem1
Synonyms	GREM1; gremlin 1; gremlin-1; down-regulated in v-mos-transformed cells; cysteine knot superfamily 1, BMP antagonist 1; down-regulated in Mos-transformed cells protein; Id; Drm; Grem; Cktsf1b1;
Gene ID	23892
mRNA Refseq	NM_011824
Protein Refseq	NP_035954
Activity	

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