

Datasheet for ABIN7320438
GREM1 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	GREM1
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GREM1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Gremlin 1/GREM1 Protein (His Tag)(Active)
Sequence:	Met1-Asp184
Characteristics:	A DNA sequence encoding the mouse GREM1 (O70326) (Met1-Asp184) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit recombinant human BMP4-induced alkaline phosphatase production by MC3T3-E1 cells. The ED50 for this effect is typically 1-7 µg/mL in the presence of 50 ng/mL of recombinant human BMP4.

Target Details

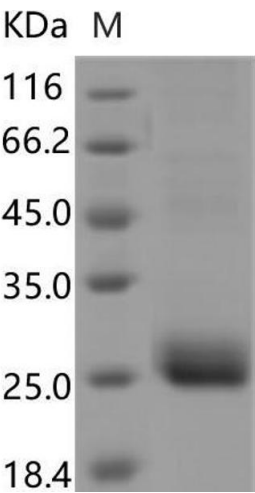
Target:	GREM1
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Target Details

Alternative Name:	Gremlin 1/GREM1 (GREM1 Products)
Background:	<p>Background: GREM1 belongs to the DAN family. It contains 1 CTCK (C-terminal cystine knot-like) domain. GREM1 is a cysteine knot-secreted protein and acts as an inhibitor in the TGF beta signaling pathway. It inhibits BMP-2, -4, and -7. Inhibition by grem 1 of BMPs in mice allow the expression of fibroblast growth factors (FGFs) 4 and 8 and Sonic hedgehog (SHH) which are necessary for proper limb development. It interacts with SLIT1 and SLIT2 in a glycosylation-dependent manner. As a cytokine, GREM1 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. It down-regulates the BMP4 signaling in a dose-dependent manner. It also acts as inhibitor of monocyte chemotaxis. GREM1 is highly expressed in small intestine, fetal brain and colon.</p> <p>Synonym: Cktsf1b1,Drm,Grem,Id</p>
Molecular Weight:	19.7 kDa
UniProt:	O70326
Pathways:	Regulation of Muscle Cell Differentiation , Tube Formation , Maintenance of Protein Location

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 0.5 mM EDTA, 3 mM DTT
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.