

Recombinant Human GREM1, His-tagged

Cat. No. GREM1-7261H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GREM1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
description	GREM1 is a member of the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists contain cystine knots and typically form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which this protein belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein is likely due to its direct binding to BMP proteins. As an antagonist of BMP, this protein may play a role in regulating organogenesis, body patterning, and tissue differentiation. In mouse, this protein has been shown to relay the sonic hedgehog (SHH) signal from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
source	E. coli
species	Human
tag	His

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form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
molecular mass	20.7 kDa (183aa)
aa sequence	MGSSHHHHHH SSGLVPRGSH MGSKKKGSQG AIPPPDKAQH NDSEQTQSPQ QPGSRNRGRG QGRGTAMPGE EVLESSQEAL HVTERKYLKRDWCKTQPLKQ TIHEEGCNSR TIINRFCYGQ CNSFYIPRHI RKEEGSFQSC SFCKPKKFTT MMVTLNCPPEL QPPTKKKRVTV RVKQCRCISI DLD
purity	>90% by SDS - PAGE
applications	SDS-PAGE
storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
concentration	0.5 mg/ml

GENE INFORMATION

gene name	GREM1 gremlin 1 [Homo sapiens]
official symbol	GREM1
synonyms	GREM1; gremlin 1; CKTSF1B1, cysteine knot superfamily 1, BMP antagonist 1 , gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis); gremlin-1; DAND2; DRM; gremlin; gremlin 1-like protein; DAN domain family member 2; increased in high glucose-2; proliferation-inducing gene 2; increased in high glucose protein 2; cell proliferation-inducing gene 2 protein; cysteine knot superfamily 1, BMP antagonist 1; gremlin 1, cysteine knot superfamily, homolog; down-regulated in Mos-transformed cells protein; PIG2; IHG-2; GREMLIN; CKTSF1B1; MGC126660;

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Gene ID	26585
mrna refseq	NM_001191322
protein refseq	NP_001178251
mim	603054
uniprot id	O60565
chromosome location	15q13.3
pathway	BMP receptor signaling, organism-specific biosystem;
function	cytokine activity; protein binding;

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