

Recombinant Full Length Human GREM1 Protein, GST-tagged

Cat. No. GREM1-5607HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GREM1 full-length ORF (NP_037504.1, 1 a.a. - 184 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	184 amino acids
Description	<p>This gene encodes 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 gene belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein encoded by this gene is likely due to its direct binding to BMP proteins. As an antagonist of BMP, this gene 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. [provided by RefSeq</p>
Molecular Mass	47.1 kDa
AA Sequence	MSRTAYTVGALLLLLGTLPPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSR NRGRGQGRGTAMPGEEVLESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSR TIINRFCYGQCNSFYIPRHIRKEEGSFQSCSFCKPKKFTTMMVTLNCPQLQPPTKTKKR

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VTRVKQCRCISIDLD

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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;

Gene ID

[26585](#)

mRNA Refseq

[NM_001191322](#)

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Protein Refseq NP_001178251

MIM 603054

UniProt ID O60565

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