

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| 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 SGLVPRGSH MGSKKKGSQG AIPPPDKAQH NDSEQTQSPQ QPGSRNRGRG QGRGTAMPGE EVLESSQEAL HVTERKYLKRDWCKTQPLKQ TIHEEGCNSR TIINRFCYGQ CNSFYIPRHI RKEEGSFQSC SFCKPKKFTT MMVTLNCPPEL QPPTKKKRVT 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; |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



| | |
|----------------------------|--|
| 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; |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA