Recombinant human Gremlin protein

Catalog Number: ATGP1961

PRODUCT INFORMATION

Expression system
E.coli

Domain
25-184aa

UniProt No.
O60565

NCBI Accession No.
NP_037504.1

Alternative Names
Gremlin-1 isoform 1, CKTSF1B1, DAND2, DRM, GREMLIN, IHG-2, PIG2

PRODUCT SPECIFICATION

Molecular Weight
20.7 kDa (183aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human GREM1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

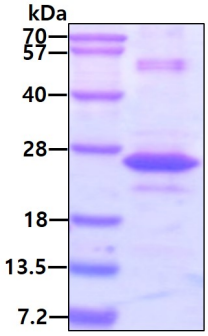
<MGSSHHHHHH SSGLVPRGSH MGS>KKKGSQG AIPPPDKAQH NDSEQTQSPQ QPGSRNRGRG QGRGTAMPGE EVLESSQEAL HVTERKYLKR DWCKTQPLKQ TIHEEGCNSR TIINRFCYGQ CNSFYIPRHI RKEEGSFQSC SFCKPKKFTT MMVTLNCPEL QPPTKKKRVT RVKQCRCISI DLD

General References

Helena Stabile, Stefania Mitola, et al. (2007). Blood 109:5 1834-1840.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain