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32-3921: GREM1 Recombinant Protein

Alternative Name :	Gremlin-1 isoform 1,CKTSF1B1,DAND2,DRM,GREMLIN,IHG-2,PIG2,GREM1,Cell proliferation-inducing gene 2 protein,Cysteine knot superfamily 1,BMP antagonist 1,DAN domain family member 2,Down-regulated in Mos-transformed cells protein,Increased

Description

Source : Escherichia Coli. GREM1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 183 amino acids (25-184) and having a molecular mass of 20.7 kDa. GREM1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. GREM1 belongs to the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists comprise cystine knots and usually form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which GREM1 belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein is because of its direct binding to BMP proteins. As an antagonist of BMP, GREM1 takes a place in regulating organogenesis, body patterning, and tissue differentiation. In mouse, GREM1 has been shown to convey the sonic hedgehog (SHH) signal from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively merged transcript variants encoding different isoforms have been found for this gene.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The GREM1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSKKKGSQG AIPPPDKAQH NDSEQTQSPQ QPGSRNRGRG QGRGTAMPGE EVLESSQEAL HVTERKYLKR DWCKTQPLKQ TIHEEGCNSR TIINRFCYGQ CNSFYIPRHI RKEEGSFQSC SFCKPKKFTT MMVTLNCPEL QPPTKKKRVT RVKQCRCISI DLD.