Recombinant Human GREM1

Cat. No. GREM1-28484TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Gremlin 1 ; 20.6kDa; O60565
Species	Human
Source	E.coli
ProteinLength	160 amino acids
Description	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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	18.400kDa
Tissue specificity	Highly expressed in small intestine, fetal brain and colon. Weakly expressed in brain, ovary, prostate, pancreas and skeletal muscle. In brain found in the region localized around the internal capsule in the large subcortical nuclei, including caudate, pu

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Constituent:0.3% Acetic acid
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPGEEVLESS QEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEE GSFQSCSFCKPKKFTTMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD
Sequence Similarities	Belongs to the DAN family.Contains 1 CTCK (C-terminal cystine knot-like) domain.

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;
Gene ID	26585
mRNA Refseq	NM_001191322
Protein Refseq	NP_001178251

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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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