Datasheet for ABIN2468502

GREM1 Protein

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Overview

Quantity:	0.01 mg
Target:	GREM1
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	KKKGSQGAIP PPDKAQHNDS EQTQSPQQPG SRNRGRGQGR GTAMPGEEVL ESSQEALHVT ERKYLKRDWC KTQPLKQTIH EEGCNSRTII NRFCYGQCNS FYIPRHIRKE EGSFQSCSFC KPKKFTTMMV TLNCPELQPP TKKKRVTRVK QCRCISIDLD
Characteristics:	Determined by its ability to inhibit BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 for this effect is 0.07-0.11 µg/mL.
Purity:	< 90 % by SDS-PAGE gel and HPLC analyses.

Target Details

Target:	GREM1
Alternative Name:	Gremlin-1 (GREM1 Products)
Background:	Gremlin-1 (isoform-1) belongs to a group of diffusible proteins which bind to ligands of the TGF-beta family and regulate their activity by inhibiting their access to signaling receptors. The interplay between TGF-beta ligands and their natural antagonists has major biological

Target Details

	significance during development processes, in which cellular response can vary considerably depending upon the local concentration of the signaling molecule. Gremlin is highly expressed in the small intestine, fetal brain, and colon and lower expression in brain, prostate, pancreas and skeletal muscle. Gremlin-1 regulates multiple functions in early development by specifically binding to and inhibiting the function of BMP-2, -4, and -7. It also plays a role in carcinogenesis and kidney branching morphogenesis. Recombinant Gremlin-1 is a 13.7 kDa protein containing 160 amino acid residues.
Gene ID:	26585
NCBI Accession:	NP_001178251
OMIM:	300797307
UniProt:	O60565
Pathways:	Regulation of Muscle Cell Differentiation, Tube Formation, Maintenance of Protein Location

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing Gremlin-1 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Gremlin-1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months