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32-20578: Recombinant Human Gremlin-1(Discontinued)

Reactivity : Human
Alternative Name : CKTSF1B1, DAND2, DRM, IHG-2

Description

Source:CHO cells
Gremlin-1 (isoform-1) belongs to a group of diffusible proteins that 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 significance during development processes, in which cellular response can vary considerably depending upon the local concentration of the signaling molecule. Gremlin-1 is highly expressed in the small intestine, fetal brain, and colon; and is expressed at lower levels in the brain, prostate, pancreas, and in skeletal muscle.Â Gremlin-1 regulates multiple functions in early development by specifically binding to, and inhibiting the function of, BMP-2, -4, and -7.Â It also plays a role in carcinogenesis and kidney branching morphogenesis. Recombinant Human Gremlin-1 is a 18.3 kDa protein containing 160 amino acid residues.

Product Info

Amount : 10 µg / 50 µg
Purification : Purity:>= 90% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : KKKGSQGAIP PPDKAQHNDS EQTQSPQQPG SRNRGRGQGR GTAMPGEEVL ESSQEALHVT ERKYLKRDWC KTQPLKQTIH EEGCNSRTII NRFCYGQCNS FYIPRHIRKE EGSFQSCSFC KPKKFTTMMV TLNCPELQPP TKKKRVTRVK QCRCISIDLD

Application Note

Determined by its ability to inhibit BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells.ÃÂ TheÃÂ $ED_{50}$for this effect is 0.07-0.11 ÃÂµg/ml.ÃÂ