

## 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. 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 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 PPDKAQHNS EQTQSPQQPG SRNRGRGQGR GTAMPGEEVL ESSQEALHVT  
ERKYLKRDWC KTQPLKQTIH EEGCNSRTII NRFCYGCNS FYIPRHIRKE EGSFQSCSFC  
KPKKFTTMMV TLNCPQLQPP TKKKRVTRVK QCRCISIDL

### Application Note

Determined by its ability to inhibit BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED<sub>50</sub> for this effect is 0.07-0.11 µg/ml.