

## 32-20577: Recombinant Human GASP-1(Discontinued)

**Alternative Name :** GDF-associated serum protein-1, GASP, KIAA0443, WFIKKNRP

### Description

**Source:CHO cells**

Growth and differentiation factor-associated serum protein-1 (GASP-1) is a secreted inhibitory TGF-Beta binding protein that contains multiple protease inhibitor structural domains. It is expressed primarily in the ovary, testis, and brain, and can act as a potent soluble inhibitor of myostatin and GDF-11, but not Activin A. The GASP-1 gene encodes a 571 amino acid protein that contains a 29 amino acid secretion signal sequence, and multiple identifiable structural features, including a WAP domain, a follistatin/Kazal domain, an immunoglobulin domain, two tandem Kunitz domains, and a netrin domain. Recombinant Human GASP-1 is a 542 amino acid protein that migrates at an apparent molecular weight of approximately 55-66 kDa by SDS-PAGE analysis under non-reducing conditions. The calculated molecular weight of Recombinant Human GASP-1 is 59.9 kDa.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity:>= 95% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** LPPIRYSHAG ICPNDMNPNL WVDAQSTCRR ECETDQECET YEKCCPNVCG TKSCVAARYM  
DVKGKKGKPVG MPKEATCDHF MCLQQGSECD IWDGQPVCKC KDRCEKEPSF TCASDGLTYY  
NRCYMDAEAC SKGITLAVVT CRYHFTWPNT SPPPPETTMH PTTASPETPE LDMAAPALLN NPVHQSVTMG  
ETVSFLCDVV GRPRPEITWE KQLEDRENVV MRPNHVRGNV VVTNIAQLVI YNAQLQDAGI YTCTARNVAG  
VLRADFPLSV VRGHQAAATS ESSPNGTAFP AAELKPPDS EDCGEEQTRW HFDAQANNCL  
TFTFGHCHRN LNHFETYEAC MLACMSGPLA ACSLPALQGP CKAYAPRWAY NSQTGQCQSF  
VYGGCEGNGN NFESREACEE SCPFPRGNQR CRACKPRQKL VTSFCRSDFV ILGRVSELTE EPDSGRALVT  
VDEVLKDEKM GLKFLGQEPL EVTLLHVDWA CPCPNVTVSE MPLIIMGEVD GGMAMLRPDS FVGASSARRV  
RKLREVMHKK TCDVLKEFLG LH

### Application Note

Determined by its ability to inhibit human Myostatin (GDF-8) activity in MCP-11 cells. The  $ED_{50}$  for this effect is 0.0025-0.0040 µg/ml in the presence of 5ng/ml of human Myostatin (GDF-8).