

## GASP-1 Human Chinese Hamster Ovary Cells (CHO)

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Chinese Hamster Ovary Cells (CHO)	RBG10156025	(25 µg)
<b>Species:</b> Human	RBG10156050	(5 µg)
<b>Other names:</b> GDF-associated serum protein-1, GASP, KIAA0443, WFIKKNRP	RBG10156100	(100 µg)

### Description

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.

### Research topic

Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease, Diabetology - Other Relevant Products

### Amino Acid Sequence

LPPIRYSHAG ICPNDMNPNL WVDAQSTCRR ECETDQECET YEKCCPNVCG TKSCVAARYM DVKGKKGPVG MPKEATCDHF  
MCLQQGSECD IWDGQPVCKC KDRCEKEPSF TCASDGLTTY NRCYMDAEAC SKGITLAVVT CRYHFTWPNT SPPPPETTMH  
PTTASPETPE LDMAAPALLN NPVHQSVTMG ETVSFLCDVV GRPRPEITWE KQLEDRENVV MRPNHVRGNV VVTNIAQLVI  
YNAQLQDAGI YTCTARNVAG VLRADFPLSV VRGHQAAATS ESSPNGTAFP AADECLKPPDS EDCGEEQTRW HFDAQANNCL  
TFTFGHCHRN LNHFETYEAC MLACMSGPLA ACSLPALQGP CKAYAPRWAY NSQTGQCQSF VYGGCEGNGN NFESREACEE  
SCPFPRGNQR CRACKPRQKL VTSFCRSDFV ILGRVSELTE EPDSGRALVT VDEVLKDEKM GLKFLGQEP L EVTLLHVDWA  
CPCPNVTVSE MPLIIMGEVD GGMAMLRPDS FVGASSARRV RKLREVMHKK TCDVLKEFLG LH

### Source

Chinese Hamster Ovary Cells (CHO)

### Purity

95%

### Biological Activity

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

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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