

GASP-1, human recombinant protein
GDF-associated serum protein-1, GASP, KIAA0443, WFIKKNRP
Catalog # PBV10782r**Specification****GASP-1, human recombinant protein - Product info**

Primary Accession [Q5JY77](#)
Calculated MW 55-66 kDa KDa

GASP-1, human recombinant protein - Additional Info

Gene ID 9737
Gene Symbol GASP
Other Names
GDF-associated serum protein-1, GASP, KIAA0443, WFIKKNRP

Gene Source Human
Source CHO cells
Assay&Purity SDS-PAGE; ≥95%
Assay2&Purity2 HPLC;
Recombinant Yes
Sequence
LPPIRYSHAG ICPNDMNP NL WVDAQSTCRR
ECETDQECET YEKCCPNVCG TKSCVAARYM
DVKGKKGPVG MPKEATCDHF MCLQQGSECD
IWDGQPVCKC KDRCEKEPSF TCASDGLTYY
NRCYMDAEAC SKGITLAVVT CRYHFTWPNT
SPPPPETTMH PTTASPETPE LDMAAPALLN
NPVHQSVTMG ETVSFLCDVV GRPRPEITWE
KQLEDRENVV MRPNHVRGNV VVTNIAQLVI
YNAQLQDAGI YTCTARNVAG VLRADFPLSV
VRGHQAAATS ESSPNGTAFP AAELCKPPDS
EDCGEEQTRW HFDAQANNCL TFTFGHCHRN
LNFETYEAC MLACMSGPLA ACSLPALQGP
CKAYAPRWAY NSQTGQCQSF VYGGCEGNGN
NFESREACEE SCFPFRGNQR CRACKPRQKL
VTSFCRSDFV ILGRVSELTE EPDSGRALVT
VDEV LKDEKM GLKFLGQEPL EVTLLHVDWA
CPCPNVTVSE MPLIIMGEVD GGMAMLRPDS
FVGASSARRV RKLREVMHKK TCDVLKEFLG
LH

Target/Specificity
GASP-1

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. 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.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM sodium phosphate, pH 7.8.

GASP-1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GASP-1, human recombinant protein - Images**GASP-1, human recombinant protein - Background**

Growth and differentiation factor-associated serum protein-1 (GASP-1) is a secreted inhibitory TGF- β 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.

GASP-1, human recombinant protein - References

Ishikawa K., et al. DNA Res. 4:307-313(1997).
Ross M.T., et al. Nature 434:325-337(2005).
Patzak D., et al. Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
Whistler J.L., et al. Science 297:615-620(2002).
Heydorn A., et al. J. Biol. Chem. 279:54291-54303(2004).