

Gelsolin (GSN) Active Protein | GSN active protein

Active Gelsolin (GSN)

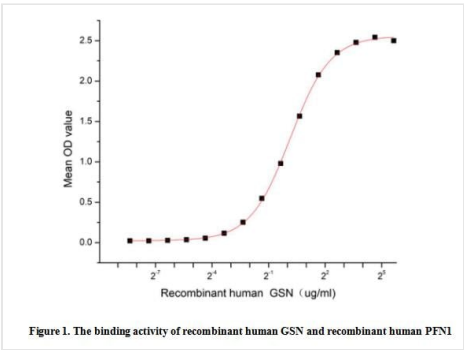
CATALOG # AAA161725	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	--------------------------	---

PRODUCT SYNONYMS

Gelsolin (GSN); Active Gelsolin (GSN); Gelsolin; GSN active protein (eukaryotic; 293F cell); Human; GS; AGEL; ADF; Brevin; Gelsolin Amyloidosis; Finnish Type; Actin-depolymerizing factor4; GSN active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ala28~Ala7 82
Applicable Applications for GSN active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.9
Research Area	Tumor immunity, Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

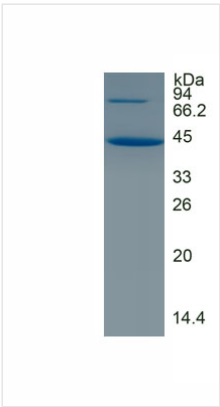


Bioactivity

Gelsolin (GSN), one of the most abundant actin-binding proteins, is a multifunctional regulator of physiological and pathological cellular process and regulate cell migration, cell morphology, proliferation and apoptosis. Widely expressed, Gelsolin binds to actin and fibronectin, and is found both secreted in plasma and in cytoplasm and a previous study revealed that the levels of GSN are decreased in various cancer. Profilin-1 (PFN1) can also bind to actin and affects the structure of the cytoskeleton. PFN1 is one of the ligands of GSN, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human GSN and recombinant human PFN1. Briefly, GSN was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to PFN1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-GSN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human GSN and recombinant human PFN1 was shown in Figure 1, the EC50 for this effect is 1.11 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for GSN active protein	Active proteins
---	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	121116
NCBI GeneID	2934
UniProt Accession #	P06396; Q5T0I2; Q8WVV7; A2A418; A8MUD1; A8MYN7; B7Z373; B7Z5V1; F5H1A8
Molecular Weight	782
NCBI Official Full Name	Gelsolin
NCBI Official Synonym Full Names	gelsolin
NCBI Official Symbol	GSN
NCBI Official Synonym Symbols	ADF; AGEL
NCBI Protein Information	gelsolin; brevin; actin-depolymerizing factor
UniProt Protein Name	Gelsolin
UniProt Gene Name	GSN
UniProt Synonym Gene Names	ADF
UniProt Entry Name	GELS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

