

Active Recombinant Human GSN protein, His-tagged

Cat. No. GSN-210H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human GSN protein(P06396)(28~782 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	28-782 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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 µl were then transferred to PFN1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-GSN pAb, then aspirated and washed 3 times. After incubation with HRP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ 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, the EC50 for this effect is 1.11 ug/mL.

Molecular Mass	84.6kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GSN gelsolin [Homo sapiens]
Official Symbol	GSN
Synonyms	GSN; gelsolin; gelsolin (amyloidosis, Finnish type); amyloidosis; Finnish type; DKFZp313L0718; brevin; actin-depolymerizing factor; ADF; AGEL;
Gene ID	2934
mRNA Refseq	NM_000177

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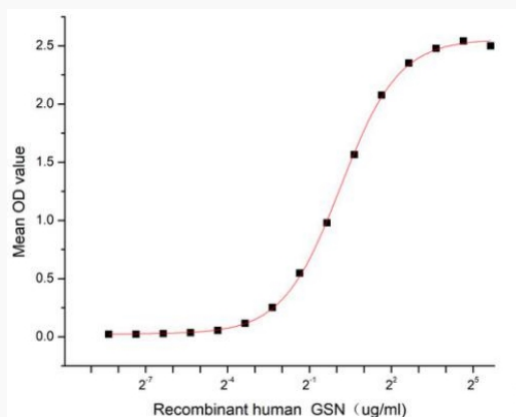
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Protein Refseq NP_000168

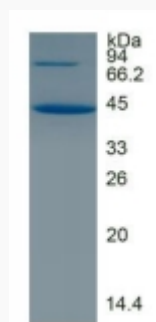
MIM 137350

UniProt ID P06396

Activity



SDS-PAGE



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