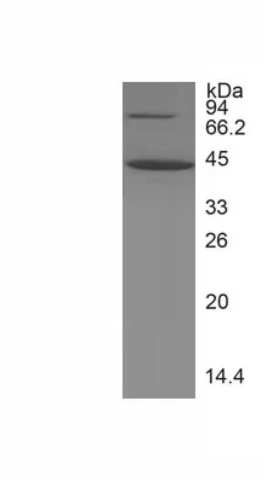
Active Gelsolin (GSN)

Catalog#:PHH12348

概述（Summary）

别称（Alternative Names）	GS; AGEL; ADF; Brevin; Gelsolin Amyloidosis,Finnish Type; Actin-depolymerizing factor
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala28-Ala782】
Accession #	P06396
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	84.6 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed. Plays a role in ciliogenesis.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

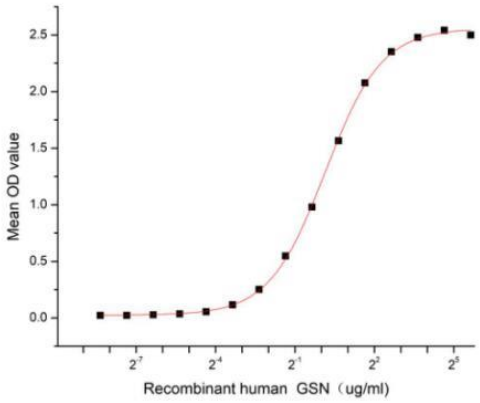


Figure 1. The binding activity of recombinant human GSN and recombinant human PFN1

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℃. 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℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL 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.

注意事项（Note）

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