

Active Native Porcine GSN Protein

Cat. No. GSN-874P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Porcine GSN was purified from Porcine smooth muscle.
Species	Porcine
Source	Porcine smooth muscle
Description	<p>Cytoplasmic gelsolin has a molecular mass of 80kDa and consists of six homologous subdomains (S1-S6). Gelsolin is a Ca⁺⁺-dependent lipid binding actin regulatory protein, possessing three different actin modulating activities: severing of F-actin, nucleation of actin polymerization and capping of filaments barbed end.</p> <p>Gelsolin has three actin binding sites, two high affinity Ca⁺⁺ binding sites and two binding sites for PIP₂.</p>
Form	10mM Imidazole pH 7.0, 0.2mM DTT, 0.2mM EGTA, 2mM NaN ₃ and 1% disaccharides, when reconstituted with 250µl ultrapure water to obtain a 1.0 mg/ml solution.
Bio-activity	<p>Fragmentation activity: The fragmentation activity of gelsolin was determined by Ostwald viscometry at 25 centigrade. The specific viscosity of F-actin (1mg/ml) is reduced by ~70% after addition of gelsolin at a molar ratio of 1:100. The gelsolin stock solution was used as described below containing 1% disaccharides.</p> <p>F-actin containing 100mM KCl, 10mM Imidazole pH 7.4, 1mM ATP was mixed with 0.2mM CaCl₂ (final concentration) prior to the addition of gelsolin.</p>
Molecular Mass	80kDa

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Purity >90% by scanning densitometry from Coomassie G-250 stained SDS-Gels.

Storage Gelsolin is stored at -70 centigrade upon arrival will be stable in performance for at least 6 months from the date of purchase. The solubilized protein is kept on ice and should be used within 5 days. Storage in glycerol at -20 centigrade results in a significant decrease of the activity, and has to be determined individually.

Shipping At ambient temperature. Upon delivery store at -70 centigrade.

GENE INFORMATION

Gene Name GSN gelsolin [*Sus scrofa*]

Official Symbol GSN

Synonyms gelsolin

Gene ID 396874

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