

## Active Native Porcine GSN Protein

**Cat. No.** GSN-876P    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Native Porcine GSN was purified from Porcine Plasma.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Porcine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Porcine Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>Plasma gelsolin has a molecular mass of 83kDa and consists of six homologous subdomains (S1-S6). Gelsolin is a Ca<sup>++</sup>-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<sup>++</sup> binding sites and two binding sites for PIP2.</p>                                |
| <b>Form</b>             | 10mM Imidazole pH 7.0, 0.2mM DTT, 0.2mM EGTA, 2mM NaN <sub>3</sub> and 1% disaccharides, when reconstituted with 50 $\mu$ l ultrapure water to obtain a 1.0 mg/ml solution.                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | <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 ~65% after addition of gelsolin at a molar ratio of 1 : 100.</p> <p>The gelsolin stock solution was used as described below containing 1% disaccharides. F-actin containing 100mM KCl, 10mM Imidazole pH 7.4, 1mM ATP was mixed with 0.2mM CaCl<sub>2</sub> (final concentration) prior to the addition of gelsolin.</p> |
| <b>Molecular Mass</b>   | 83kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >92% by scanning densitometry from Coomassie G-250 stained SDS-Gels.                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | 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 determined individually. |
| <b>Shipping</b>         | At ambient temperature. Upon delivery store at -70 centigrade.                                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | GSN gelsolin [ <i>Sus scrofa</i> ]                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>  | GSN                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>         | gelsolin                                                                                                                                                                                                                                                                                                                               |
| <b>Gene ID</b>          | 396874                                                                                                                                                                                                                                                                                                                                 |

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