

## Active Native Bovine GSN Protein

**Cat. No.** GSN-875B    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Native Bovine GSN was purified from Bovine Plasma.
<b>Species</b>	Bovine
<b>Source</b>	Bovine Plasma
<b>Description</b>	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. Gelsolin has three actin binding sites, two high affinity Ca <sup>++</sup> binding sites and two binding sites for PIP2.
<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 μl ultrapure water to obtain a 1.0 mg/ml solution.
<b>Bio-activity</b>	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. 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.
<b>Molecular Mass</b>	83kDa

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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 [ Bos taurus ]

**Official Symbol** GSN

**Synonyms** ADF; actin-depolymerizing factor; brevin; gelsolin (amyloidosis, Finnish type)

**Gene ID** 535077

**mRNA Refseq** NM\_001034627

**Protein Refseq** NP\_001029799

**UniProt ID** Q3SX14

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