

Active Native Bovine GSN Protein

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

SPECIFICATION

Product Overview	Native Bovine GSN was purified from Bovine Plasma.
Species	Bovine
Source	Bovine Plasma
Description	Plasma gelsolin has a molecular mass of 83kDa 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. Gelsolin has three actin binding sites, two high affinity Ca ⁺⁺ binding sites and two binding sites for PIP2.
Form	10mM Imidazole pH 7.0, 0.2mM DTT, 0.2mM EGTA, 2mM NaN ₃ and 1% disaccharides, when reconstituted with 50 µltrapure water to obtain a 1.0 mg/ml solution.
Bio-activity	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 ₂ (final concentration) prior to the addition of gelsolin.
Molecular Mass	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