

Native Bovine S-100 Protein, Brain

Catalog No.	CNC008A	Quantity:	1.0 mg
Description:	S-100 protein derived from brain tissue is an acidic calcium-binding protein. In human brain tissue S-100 protein is mainly presented as 3 isoforms - aa homodimer (S-100aa or S-100a(0)), the bb homodimer (S-100b) and ab heterodimer (S-100a). S-100 is a purified mixture of all forms. Because of its predominant location in astroglial cells S-100 protein can be used as a sensitive and reliable marker for central nervous system injury. Structural damage of glial cells causes leakage of S-100 protein into the extracellular matrix and into cerebrospinal fluid, further releasing into the bloodstream. Measurements of S-100 protein in patient serum samples are useful in monitoring of traumatic brain injury, ischemic brain damage after circulatory arrests, and in diagnosis and prognosis of clinical outcome in acute stroke.		
Source:	Bovine brain		
Molecular Weight:	6,000-6,500, apparent on SDS-PAGE, reduced, heat-denatured		
Formulation:	Lyophilized from 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 100 μ M DTT		
Purity:	$\geq$ 95% by SDS-PAGE		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 -1.0 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Country of Origin:	Prepared from tissue collected in the contiguous United States from animals under 30 months of age at a USDA inspected facility. Animals were inspected ante and postmortem and found free of infections diseases.		
Storage & Stability:	Store -20°C to -80°C for 1 year. After reconstitution, prepare aliquots and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

SDS-PAGE



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