Native Bovine S-100 Protein

Cat. No. S100B-256B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Bovine
Source	Bovine Brain
Description	S-100 is a low molecular weight, cytoplasmic, calcium binding protein. It is traditionally found in the brain, heart and muscle tissue. S-100 has two subunits (alpha-chain and beta-chain) and exists in several different forms. The alpha-alpha homodimer is referred to in literature as either the S-100αα or S-100a(0), the beta-beta homodimer is referred to in literature as S-100b and the alpha-beta heterodimer is referred to in literature as S-100a. ART purifies a mixture of all forms (S-100), S-100αα (<5% beta="" chain="" contamination="" by="" western="" blot),="" and="" s-100b=""><10% alpha="" chain="" contamination="" by="" western="">
Form	Lyophilized
Molecular Mass	MW: 6000-6500 (Reduced/Heated)
Purity	>=95% by SDS-PAGE
Usage	For research or further manufacturing use only.
Quality Control Test	Prepared from tissue collected int the contiguous United States from animals under 30 months of age at a USDA inspected facility.Animals were inspected ante and post

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	mortem and found free of infections diseases.
Stability	>1 year
Storage	<=>
Storage Buffer	50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 100 M DTT

GENE INFORMATION

Gene Name	S100B S100 calcium binding protein B [Bos taurus]
Official Symbol	S100B
Synonyms	protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B; S100 protein, beta polypeptide
Gene ID	525716
mRNA Refseq	NM_001034555
Protein Refseq	NP_001029727
UniProt ID	P02638
Chromosome Location	chromosome: 1
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; DEx/H-box helicases activate type I IFN and inflammatory cytokines production, organism-specific biosystem

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Function	RAGE receptor binding; S100 protein binding; calcium ion binding

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