

Datasheet for ABIN2018336 S100A1 Protein (AA 1-94) (His tag)



Overview Quantity: 50 µg S100A1 Target: Protein Characteristics: AA 1-94 Human Origin: Source: Escherichia coli (E. coli) Protein Type: Recombinant Purification tag / Conjugate: This S100A1 protein is labelled with His tag. Product Details Characteristics: AA 1-94, expressed with an N terminal 6 His tag. > 95 % as analyzed by SDS-PAGE and HPLC. Purity: Endotoxin Level: < 1 EU/µg, determined by LAL method.

Target Details	3
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Target:	S100A1
Alternative Name:	S100 Calcium-Binding Protein A1 (S100A1) (S100A1 Products)
Background:	S100 calcium-binding protein A1 (S100A1) is a small calcium binding protein with EF-hand
	structures and belongs to the S100 family. S100 proteins include at least 25 members which
	are located as a cluster on human chromosome 1q21. S100A1 is found in the heart, skeletal
	muscle, brain, and kidney.S100A1 mainly resides on the sarcoplasmic reticulum, mitochondria
	and myofilaments. S100A1 may function in stimulation of Ca2+-induced Ca2+ release,

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Target Details

	inhibition of microtubule assembly, and inhibition of protein kinase C-mediated
	phosphorylation. Reduced expression of this protein has been implicated in
	cardiomyopathies.Recombinant S100 calcium-binding protein A1 (S100A1) with His tag
	produced in E. coli is a single chain containing 101 amino acids with molecular mass of 11.5
	kDa analyzed by reducing SDS-PAGE.
	Synonyms: Protein S100-A1, S100 calcium-binding protein A1, S-100 protein alpha subunit, S-
	100 protein alpha chain, S100A1, S100A, S100, S100-alpha, S100-A1
Molecular Weight:	11.5 kDa, observed by reducing SDS-PAGE.
NCBI Accession:	NP_006262
Pathways:	Regulation of Muscle Cell Differentiation, Toll-Like Receptors Cascades, S100 Proteins
Application Details	
Restrictions:	For Research Use only
Restrictions: Handling	For Research Use only
	For Research Use only Lyophilized
Handling	
Handling Format:	Lyophilized
Handling Format: Reconstitution:	Lyophilized Reconstituted in ddH20 at 200 µg/mL.
Handling Format: Reconstitution: Buffer:	Lyophilized Reconstituted in ddH2O at 200 µg/mL. Lyophilized after extensive dialysis against 20 mM Tris-HCl, 0.1 mM EDTA, pH 7.0.
Handling Format: Reconstitution: Buffer: Storage:	Lyophilized Reconstituted in ddH2O at 200 μg/mL. Lyophilized after extensive dialysis against 20 mM Tris-HCl, 0.1 mM EDTA, pH 7.0. -80 °C
Handling Format: Reconstitution: Buffer: Storage:	 Lyophilized Reconstituted in ddH20 at 200 µg/mL. Lyophilized after extensive dialysis against 20 mM Tris-HCl, 0.1 mM EDTA, pH 7.0. -80 °C Lyophilized recombinant S100 calcium- binding protein A1 (S100A1) remains stable up to 6