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Datasheet for ABIN7505347

**S100A1 Protein (AA 2-94) (His tag)**

## Overview

Quantity:	100 µg
Target:	S100A1
Protein Characteristics:	AA 2-94
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This S100A1 protein is labelled with His tag.

## Product Details

Sequence:	Gly 2-Ser 94
Characteristics:	A DNA sequence encoding the mouse S100A1 (P56565) (Gly 2-Ser 94) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its ability to bind human AGER in a functional ELISA.

## Target Details

Target:	S100A1
Alternative Name:	S100A1 ( <a href="#">S100A1 Products</a> )
Background:	Background: S100A1 is a Ca <sup>2+</sup> -binding protein of the EF-hand type that belongs to the S100

## Target Details

protein family. S100 proteins consisting of at least 19 members exist as dimers in the cytoplasm and/or nucleus of a wide range of cells, and are involved in the regulation of a number of cellular processes such as cell-cycle progression and cell differentiation. This protein has been shown to function in the processes including stimulation of Ca<sup>2+</sup>-induced Ca<sup>2+</sup> release, inhibition of microtubule assembly, and inhibition of PKC-mediated phosphorylation.. Phosphoglucosmutase is a target protein whose activity is antagonistically regulated by S100A1, and recently, S100A1 is also identified as a potent molecular chaperone and a new member of the Hsp70/Hsp90 multichaperone complex. S100A1 displays a tissue-specific expression pattern with highest levels in myocardium and is considered to be an important regulator of cardiac contractility. Accordingly, reduced expression or mutations of S100A1 gene have been implicated in cardiomyopathies.

Synonym: A1266795,S100,S100a

Molecular Weight:	12.5 kDa
UniProt:	<a href="#">P56565</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">S100 Proteins</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months