

Datasheet for ABIN7505009  
**S100B Protein (AA 2-92) (GST tag)**



[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	S100B
Protein Characteristics:	AA 2-92
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This S100B protein is labelled with GST tag.

## Product Details

Sequence:	Ser2-Glu92
Characteristics:	A DNA sequence encoding the Human S100B protein (P04271) (Ser2-Glu92) was expressed with a N-GST.
Purity:	> 90 % as determined by reducing SDS-PAGE.

## Target Details

Target:	S100B
Alternative Name:	S100B ( <a href="#">S100B Products</a> )
Background:	<p>Abbreviation: S100B</p> <p>Target Synonym: S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B</p> <p>Background: Weakly binds calcium but binds zinc very tightly-distinct binding sites with</p>

## Target Details

different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.

Molecular Weight:      Calculated MW: 36.6 kDa  
Observed MW: 37 kDa

UniProt:                      [P04271](#)

Pathways:                      [Regulation of Muscle Cell Differentiation](#), [Positive Regulation of Immune Effector Process](#), [Toll-Like Receptors Cascades](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [S100 Proteins](#)

## Application Details

Restrictions:                      For Research Use only

## Handling

Format:                              Lyophilized

Buffer:                              Lyophilized from sterile PBS, pH 7.4.  
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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