

Product datasheet

Recombinant human S100 beta protein ab200489

1 Image

Description

<b>Product name</b>	Recombinant human S100 beta protein	
<b>Biological activity</b>	Measured by its ability to bind human AGER in a functional ELISA.	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">P04271</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MSELEKAMVALIDVFHQYSGREGDKHKLKSELKELINNE LSHFLEEIKE QEVVDKVMETLDNDGDGECDFQEFMAFVAMVTTACHEF FEHE	
<b>Predicted molecular weight</b>	12 kDa including tags	
<b>Amino acids</b>	1 to 92	
<b>Tags</b>	His tag N-Terminus	
<b>Additional sequence information</b>	NP_006263 Includes a polyhistidine tag at the N-terminus, and has a calculated MW of 11.5 kDa. The predicted N-terminus is Met. DTT-reduced Protein migrates as 11 kDa in SDS-PAGE .	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab200489** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies
	SDS-PAGE
<b>Form</b>	Lyophilized

Preparation and Storage

## Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 0.61% Tris buffer, 0.87% Sodium chloride, 5% Trehalose

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Reconstitution

Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

## General Info

### Function

Weakly binds calcium but binds zinc very tightly-distinct binding sites with 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.

### Tissue specificity

Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.

### Sequence similarities

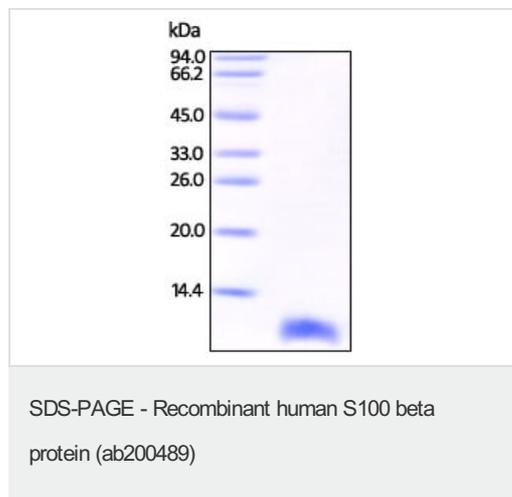
Belongs to the S-101 family.

Contains 2 EF-hand domains.

### Cellular localization

Cytoplasm. Nucleus.

## Images



DTT reduced SDS-PAGE analysis of ab200489 with staining overnight with Coomassie Blue.

DTT-reduced protein migrates as 11 kDa in SDS-PAGE .

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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