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Datasheet for ABIN7505488 S100B Protein (His tag)

Overview

Quantity:	100 µg
Target:	S100B
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This S100B protein is labelled with His tag.

Product Details

Sequence:	Ser2-Glu92 LVPRGF Ser2-Glu92
Characteristics:	A DNA sequence encoding theRat S100B protein (P04631) (Ser2-Glu92 LVPRGF Ser2-Glu92) was expressed with a N-His.
Purity:	>90 % as determined by reducing SDS-PAGE.

Target Details

Target:	S100B
Alternative Name:	S100B (S100B Products)
Background:	Background: 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

Target Details

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. Synonym: S-100 protein beta chain,S-100 protein subunit beta,S100 calcium-binding protein B

Molecular Weight: 21.9 kDa

UniProt: [P04631](#)

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.

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