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Datasheet for ABIN7505467
S100A12 Protein (AA 2-92) (His tag)

Overview

Quantity:	100 µg
Target:	S100A12
Protein Characteristics:	AA 2-92
Origin:	Pig
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This S100A12 protein is labelled with His tag.

Product Details

Sequence:	Thr 2-Glu 92
Characteristics:	A DNA sequence encoding the Pig S100A12 protein (P80310) (Thr 2-Glu 92) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	S100A12
Alternative Name:	S100A12 (S100A12 Products)
Background:	Abbreviation: S100A12 Target Synonym: Protein S100-A12,Calcium-binding protein in amniotic fluid 1,Calgranulin-C,Extracellular newly identified RAGE-binding protein,Migration inhibitory factor-related protein 6,S100 calcium-binding protein A12,Calcitermin,S100A12,CGRP,MRP-6,EN-RAGE

Target Details

Background: S100 protein is a family of low molecular weight protein found in vertebrates characterized by two EF-hand calcium-binding motifs. There are at least 21 different S100 proteins, and the name is derived from the fact that the protein is 100 % soluble in ammonium sulfate at neutral pH . Most S100 proteins are disulfide-linked homodimer, and is normally present in cells derived from the neural crest, chondrocytes, macrophages, dendritic cells, etc. S100 proteins have been implicated in a variety of intracellular and extracellular functions. They are involved in regulation of protein phosphorylation, transcription factors, the dynamics of cytoskeleton constituents, enzyme activities, cell growth and differentiation, and the inflammatory response. Protein S100-A12, also known as S100 calcium-binding protein A12, Calcium-binding protein in amniotic fluid 1, Calgranulin-C, and S100A12, is a member of the S-101 family. Like the majority of S100 proteins, S100A12 is a dimer, with the interface between the two subunits being composed mostly of hydrophobic residues. The fold of S100A12 is similar to the other known crystal and solution structures of S100 proteins, except for the linker region between the two EF-hand motifs. S100A12 plays an important role in the inflammatory response.

Molecular Weight:	Calculated MW: 9.9 kDa Observed MW: 12 kDa
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UniProt:	P80310
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Pathways:	Toll-Like Receptors Cascades , S100 Proteins
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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Storage:	4 °C,-20 °C,-80 °C
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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.
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Handling

Expiry Date: 12 months