Datasheet for ABIN7535876

s100a4 Protein

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Overview

Quantity:	100 µg
Target:	s100a4 (S100A4)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human S100-A4 Protein
Sequence:	ACPLEKALDV MVSTFHKYSG KEGDKFKLNK SELKELLTRE LPSFLGKRTD EAAFQKLMSN LDSNRDNEVD FQEYCVFLSC IAMMCNEFFE GFPDKQPRKK
Specificity:	Ala2-Lys101
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	s100a4 (S100A4)
Alternative Name:	S100-A4 (S100A4 Products)
Background:	Description: S100A4 belongs to the family of small calcium-binding S100 proteins containing two EF-hand calcium-binding motifs. In humans at least 20 S100 family members that are distributed tissue specifically have been identified, and are involved in a number of cellular

Target Details

	processes as transducers of calcium signal. S100A4 is a symmetric homodimer, and undergoes a relatively large conformational change upon the typical EF-hand binding calcium, which is necessary for S100A4 to interact with its protein targets and generate biological effects. It can bind the already known targets p53, F-actin, liprin β, myosin heavy chain II, and prevent their phosphorylation and multimerization. It has been demonstrated that S100A4 is directly involved in tumor metastasis including cell motility, invasion, apoptosis, angiogenesis and differentiation, and appears to be a metastasis factor and a molecular marker for clinical prognosis. Multiple alternatively spliced variants encoding the same protein have been identified. Name: 18A2,42A,CAPL,FSP1,MTS1,P9KA,PEL98,S100A4, 18A2, 42A, CAPL, FSP1, MTS1, P9KA, PEL98, protein S100-A4
Gene ID:	6275
UniProt:	P26447
Pathways:	S100 Proteins

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.