9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

S100A1 Human

S100 Calcium Binding Protein A1 Human Recombinant
RCP1946

Product Overview

Name	S100A1 Human
Description	
S100 Calcium Binding Protein A1 Human Recombinant	
Accession (Primary)	P23297
Synonyms	
Protein S100-A1, S100 calcium-binding protein A1, S-100 protein alpha subunit, S-100 protein alpha chain, S100A1, S100A, S100, S100-alpha, S100-A1.	
Introduction	
S100A1 is a member of the S100 family of calcium binding proteins with EF-hand type Ca+2 binding motive. S100A1 (Calcium Binding Protein A1) is involved in the activation of sarcoplasmatic calcium release and the regulation of intermediate filament polymerization. S100A1 may function in stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of S100A1 has been implicated in cardiomyopathies. S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21.	
Source	
Escherichia Coli.	
Physical Appearance	
White lyophilized (freeze-dried) powder.	
Formulation	
The S100A1 protein was lyophilized from 0.4 µm filtered solution at a concentration of 0.5mg/ml containing 20mM Tris pH-7.5 and 50mM NaCl.	
Stability	
Lyophilized S100A1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution S100A1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MKHHHHHHAS GSELETAMET LINVFHAHSG KEGDKYKLSK KELKELLQTE LSGFLDAQKD VDAVDKVMKE LDENGDGEVD FQEYVVLVAA LTVACNNFFW ENS.

Solubility

Add deionized water to a working concentration approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by appropriate sterile filter before using it in the cell culture.

Precautions

S100A1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P23297)