A Reliable Research Partner in Life Science and Medicine

Recombinant Human S100A1 Protein

Catalog Number: PKSH031792

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Human

Source E.coli-derived Human S100A1 protein Met 1-Ser 94

 Calculated MW
 10.5 kDa

 Accession
 NP_006262.1

Bio-activity Immobilized recombinant human Fc-S100B at 10 μg/mL (100 μl/well) can bind

biotinylated human S100A1 with a linear range of 15.6-250 ng/mL. 3. Measured by its

ability to bind human His-S100B in functional ELISA.

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

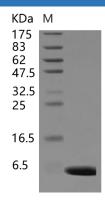
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Elabscience®

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

S100A1 is a Ca2+binding protein of the EF-hand type that belongs to the S100 protein family. S100 proteins consisting of at least 19 members exist as dimers in the cytoplasm and/or nucleus of a wide range of cells; and are involved in the regulation of a number of cellular processes such as cell-cycle progression and cell differentiation. This protein has been shown to function in the processes including stimulation of Ca2+-induced Ca2+ release; inhibition of microtubule assembly; and inhibition of PKC-mediated phosphorylation. Phosphoglucomutase is a target protein whose activity is antagonistically regulated by S100A1; and recently; S100A1 is also identified as a potent molecular chaperone and a new member of the Hsp70/Hsp90 multichaperone complex S100A1 displays a tissue-specific expression pattern with highest levels in myocardium and is considered to be an important regulator of cardiac contractility. Accordingly; reduced expression or mutations of S100A1 gene have been implicated in cardiomyopathies.

For Research Use Only

Toll-free: 1-888-852-8623 Web:www.elabscience.com Tel: 1-832-243-6086 Email:techsupport@elabscience.com Fax: 1-832-243-6017