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37-1085: Human S100A1 Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Human
Alternative Name : S100 Protein, S100-alpha Protein, S100A Protein,

Description

Source : HEK293 Cells
S1A1 is a Ca2+binding protein of the EF-hand type that belongs to the S1 protein family. S1 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 S1A1, and recently, S1A1 is also identified as a potent molecular chaperone and a new member of the Hsp7/Hsp9 multichaperone complex. S1A1 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 S1A1 gene have been implicated in cardiomyopathies.

Product Info

Amount :	Human S100A1 Recombinant Protein (Fc Tag)(Discontinued) / 100 µg
Purification :	> 95 % as determined by SDS-PAGE
Content :	Formulation Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage condition :	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Amino Acid :	Gly2-Ser94

Application Note

Measured by its ability to bind biotinylated Human Fc-S100B in functional Elisa.
Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method

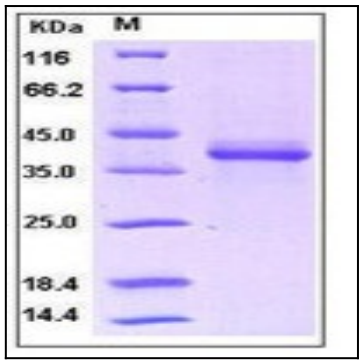

Fig 1: Human S100A1 Recombinant Protein (Fc Tag)