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32-4729: Recombinant Human S100 Calcium Binding Protein A1

Alternative Name : 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.

Description

Source : Escherichia Coli. S100A1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 103 amino acids which include a 10 amino acid His Tag fused at N-terminus and having a total molecular mass of 11.66 kDa. S100A1 Human Recombinant is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The S100A1 protein was lyophilized from 0.4µm filtered solution at a concentration of 0.5mg/ml containing 20mM Tris pH-7.5 and 50mM NaCl.
Storage condition :	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.
Amino Acid :	MKHHHHHHAS GSELETAMET LINVFHAHSG KEGDKYKLSK KELKELLQTE LSGFLDAQKD VDAVDKVMKE LDENGDGEVD FQEYVVLVAA LTVACNNFFW ENS.

Application Note

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.