



Product Datasheet

Product Name	S100A1 Human Recombinant
Cata No	CB500985
Source	<i>Escherichia Coli.</i>
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.

Description

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 sarcoplasmic calcium release and the regulation of intermediate filament polymerization. S100A1 may function in stimulation of Ca^{2+} -induced Ca^{2+} 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. S100A1 Human Recombinant full length protein expressed in E.coli is antibody reactive. The S100A1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Biological Activity

~3 nmol/mg/min using phosphatidylinositol as substrate.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

S100A1 at 0.2mg/ml in 20mM HEPES-KOH, pH7.0, 50mM NaCl, 1mM EDTA and 1mM DTT.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

Please prevent freeze-thaw cycles.

Applications

- ELISA
- Inhibition Assays
- Western Blotting