

Product Datasheet

Recombinant S100A1, His, Human (orb1494776)

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|--------------------------|---|
| Description | S100 calcium-binding protein A1 (S100A1) is a small calcium binding protein with EF-hand structures and belongs to the S100 family. S100 proteins include at least 25 members which are located as a cluster on human chromosome 1q21. S100A1 is found in the heart, skeletal muscle, brain, and kidney. S100A1 mainly resides on the sarcoplasmic reticulum, mitochondria and myofilaments. 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 this protein has been implicated in cardiomyopathies. Recombinant S100 calcium-binding protein A1 (S100A1) with His tag produced in E.coli is a single chain containing 101 amino acids with molecular mass of 11.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript. |
| Endotoxins | < 1 EU/μg, determined by LAL method. |
| Preservatives | Lyophilized after extensive dialysis against 20 mM Tris-HCl, 0.1 mM EDTA, pH 7.0. |
| Form/Appearance | Lyophilized after extensive dialysis against 20 mM Tris-HCl, 0.1 mM EDTA, pH 7.0. |
| Storage | Lyophilized recombinant S100° Calcium- binding protein A1 (S100A1) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, S100A1 should be stable up to 2 week at 4°C or up to 3 months at -20°C. |
| Note | For research use only |
| Application notes | Reconstituted in ddH ₂ O at 200 μg/ml. |
| Protein Sequence | MHHHHHHMGS ELETAMETLI NVFHAHSGKE GDKYKLSKKE LKELLQTELS GFLDAQKDVD AVDKVMKELD ENGDGEVDFQ EYVVLVAALT VACNNFFWEN S |
| Purity | > 95% as analyzed by SDS-PAGE and HPLC. |
| Source | Escherichia coli. |

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MW 11.5 kDa, observed by reducing SDS-PAGE.

Expiration Date 6 months from date of receipt.

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