

# Recombinant Human Protein S100-A1(S100A1)

Catalog No: #AP70735

Package Size: #AP70735-1 20ug #AP70735-2 100ug #AP70735-3 1mg

## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Product Name          | Recombinant Human Protein S100-A1(S100A1)                                                                                                                                                                                                                                                                                                                                                       |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:2-94aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                               |
| Other Names           | S-100 protein alpha chain;S-100 protein subunit alpha;S100 calcium-binding protein A1                                                                                                                                                                                                                                                                                                           |
| Accession No.         | P23297                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 26.4 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                    |
| Target Sequence       | GSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVDKVMKELDENG DGEVDFQ<br>EYVVLVAALT VACNNFFWENS                                                                                                                                                                                                                                                                                                |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.

## References

S100 alpha, CAPL, and CACY molecular cloning and expression analysis of three calcium-binding proteins from human heart.Engelkamp D., Schaefer B.W., Erne P., Heizmann C.W.Biochemistry 31:10258-10264(1992)Research Topic:Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.