# Data Sheet (Cat.No.TMPY-03458)

TargetMol

## Sorcin/SRI Protein, Human, Recombinant

### General Information

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|---|---|
| Synonyms: | sorcin;SCN;CP22;V19;CP-22 |
| Protein Construction: | A DNA sequence encoding the human SRI (P30626) (Met1-Val198) was expressed and purified. Predicted N terminal: Gly |
| Species: | Human |
| Expression Host: | Baculovirus Insect Cells |
| Accession: | P30626 |
| Molecular Weight: | 21.8 kDa (predicted); 20 kDa (reducing conditions) |

### QC Testing

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| Biological Activity: | Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90 % as determined by SDS-PAGE |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM Nacl, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization. |

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Sorcin was originally identified in multidrug-resistant cells. It is a calcium-binding protein. Sorcin modulates excitation-contraction coupling in the heart, contributes to calcium homeostasis in the heart sarcoplasmic reticulum. Sorcin is overexpressed in the multi-drug resistant chinese hamster ovary cell line CHRC5 and a variety of multidrug-resistant tumor cell lines, but overexpression is not a sufficient or necessary condition for the acquisition of the multidrug-resistant phenotype.

Reference

Meyers MB,et al. (1995) Association of sorcin with the cardiac ryanodine receptor. J Biol Chem. 270(44):26411-8.
Brownawell AM,et al. (1997) Calcium-dependent binding of sorcin to the N-terminal domain of synexin (annexin VII). J Biol Chem. 272(35):22182-90.
Hansen,et al. (2003) The PEF family proteins sorcin and grancalcin interact in vivo and in vitro. FEBS Lett. 545(2-3): 151-4.



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