

Sorcin/SRI Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	CP-22;CP22;sorcin;V19;SCN
Protein Construction:	A DNA sequence encoding the human SRI (P30626) (Met1-Val198) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	P30626
Molecular Weight:	49.5 kDa (predicted); 47 kDa (reducing conditions)

QC Testing

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/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Tris, 500 mM NaCl, pH 7.4, 10% glycerol. 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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