

# Recombinant Human Cysteine and glycine-rich protein 3(CSRP3)

Catalog No: #AP70202

Package Size: #AP70202-1 20ug #AP70202-2 100ug #AP70202-3 1mg

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Recombinant Human Cysteine and glycine-rich protein 3(CSRP3)                                                                                                                                                                                                                                                                                                                                    |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:1-194aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                              |
| Other Names           | Cardiac LIM protein;Cysteine-rich protein 3 ;CRP3LIM domain protein, cardiacMuscle LIM protein                                                                                                                                                                                                                                                                                                  |
| Accession No.         | P50461                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 37 kDa                                                                                                                                                                                                                                                                                                                                                                                          |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                    |
| Target Sequence       | MPNWGGGAKCGACEKTVYHAEIQCNGRSFHKTCFHCMACRKALDSTTVAAHESEIYCKVCYGRRYGPKGI<br>GYGQGAGCLSTDGHEHLGLQFQQSPKPARSVTTSNPSKFTAKFGESEKPCRCGKSVYAAEKVMGGGKPDWH<br>KTCFRCAICGKSLESTNVTDKDGELYCKVCYAKNFGPTGIGFGGLTQQVEKKE                                                                                                                                                                                      |
| 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

Positive regulator of myogenesis. Plays a crucial and specific role in the organization of cytosolic structures in cardiomyocytes. Could play a role in mechanical stretch sensing. May be a scaffold protein that promotes the assembly of interacting proteins at Z-line structures. It is essential for calcineurin anchorage to the Z line. Required for stress-induced calcineurin-NFAT activation .

## References

Beyond the sarcomere CSR3 mutations cause hypertrophic cardiomyopathy.Geier C., Gehmlich K., Ehler E., Hassfeld S., Perrot A., Hayess K., Cardim N., Wenzel K., Erdmann B., Krackhardt F., Posch M.G., Osterziel K.J., Bublak A., Nagele H., Scheffold T., Dietz R., Chien K.R., Spuler S. , Furst D.O., Nurnberg P., Ozcelik C.Hum. Mol. Genet. 17:2753-2765(2008) Research Topic:Developmental Biology

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