

## Retinoschisin (RS1) Recombinant Protein | RS1 recombinant protein

Recombinant Human Retinoschisin (RS1)

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|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA115546</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

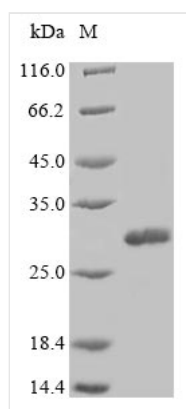
### PRODUCT SYNONYMS

Retinoschisin (RS1); Recombinant Human Retinoschisin (RS1); X-linked juvenile retinoschisis protein; RS1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions      | 24-224aa; Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence                | STEDEGEDPW YQKACKCDCQ GGPNALWSAG ATSLDCIPEC PYHKPLGFES GEVTPDQITC SNPEQYVGWY SSWTANKARL NSQGFGCAWL SKFQDSSQWL QIDLKEIKVI SGILTQGRCD IDEWMTKYSV QYRTDERLNW IYYKDQTGNN RVFYGNSDRT STVQNLLRPP IISRFIRLIP LGWHVRIAIR MELLECVSKC A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Production Note         | <b>Special Offer:</b> The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### IMAGES



SDS-PAGE

### ADDITIONAL INFORMATION

|                                                         |                                                                      |
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| Related Product Information for RS1 recombinant protein | May be active in cell adhesion processes during retinal development. |
|---------------------------------------------------------|----------------------------------------------------------------------|

| Product Categories/Family for RS1 recombinant protein | Cell adhesion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| References                                            | <p>Positional cloning of the gene associated with X-linked juvenile retinoschisis.Sauer C.G., Gehrig A., Warneke-Wittstock R., Marquardt A., Ewing C.C., Gibson A., Lorenz B., Jurklies B., Weber B.H.Nat. Genet. 17:164-170(1997)</p> <p>The DNA sequence of the human X chromosome.Ross M.T., Grafham D.V., Coffey A.J., Scherer S., McLay K., Muzny D., Platzer M., Howell G.R., Burrows C., Bird C.P., Frankish A., Lovell F.L., Howe K.L., Ashurst J.L., Fulton R.S., Sudbrak R., Wen G., Jones M.C., Hurler M.E., Andrews T.D., Scott C.E., Searle S., Ramser J., Whittaker A., Deadman R., Carter N.P., Hunt S.E., Chen R., Cree A., Gunaratne P., Havlak P., Hodgson A., Metzker M.L., Richards S., Scott G., Steffen D., Sodergren E., Wheeler D.A., Worley K.C., Ainscough R., Ambrose K.D., Ansari-Lari M.A., Aradhya S., Ashwell R.I., Babbage A.K., Bagguley C.L., Ballabio A., Banerjee R., Barker G.E., Barlow K.F., Barrett I.P., Bates K.N., Beare D.M., Beasley H., Beasley O., Beck A., Bethel G., Blechschmidt K., Brady N., Bray-Allen S., Bridgeman A.M., Brown A.J., Brown M.J., Bonnin D., Bruford E.A., Buhay C., Burch P., Burford D., Burgess J., Burrill W., Burton J., Bye J.M., Carder C., Carrel L., Chako J., Chapman J.C., Chavez D., Chen E., Chen G., Chen Y., Chen Z., Chinault C., Ciccodicola A., Clark S.Y., Clarke G., Clee C.M., Clegg S., Clerc-Blankenburg K., Clifford K., Cobley V., Cole C.G., Conquer J.S., Corby N., Connor R.E., David R., Davies J., Davis C., Davis J., Delgado O., Deshazo D., Dhami P., Ding Y., Dinh H., Dodsworth S., Draper H., Dugan-Rocha S., Dunham A., Dunn M., Durbin K.J., Dutta I., Eades T., Ellwood M., Emery-Cohen A., Errington H., Evans K.L., Faulkner L., Francis F., Frankland J., Fraser A.E., Galgoczy P., Gilbert J., Gill R., Gloeckner G., Gregory S.G., Gribble S., Griffiths C., Grocock R., Gu Y., Gwilliam R., Hamilton C., Hart E.A., Hawes A., Heath P.D., Heitmann K., Hennig S., Hernandez J., Hinzmann B., Ho S., Hoffs M., Howden P.J., Huckle E.J., Hume J., Hunt P.J., Hunt A.R., Isherwood J., Jacob L., Johnson D., Jones S., de Jong P.J., Joseph S.S., Keenan S., Kelly S., Kershaw J.K., Khan Z., Kioschis P., Klages S., Knights A.J., Kosiura A., Kovar-Smith C., Laird G.K., Langford C., Lawlor S., Leversha M., Lewis L., Liu W., Lloyd C., Lloyd D.M., Loulseged H., Loveland J.E., Lovell J.D., Lozado R., Lu J., Lyne R., Ma J., Maheshwari M., Matthews L.H., McDowall J., McLaren S., McMurray A., Meidl P., Meitinger T., Milne S., Miner G., Mistry S.L., Morgan M., Morris S., Mueller I., Mullikin J.C., Nguyen N., Nordsiek G., Nyakatura G., O'dell C.N., Okwuonu G., Palmer S., Pandian R., Parker D., Parrish J., Pasternak S., Patel D., Pearce A.V., Pearson D.M., Pelan S.E., Perez L., Porter K.M., Ramsey Y., Reichwald K., Rhodes S., Ridler K.A., Schlessinger D., Schueler M.G., Sehra H.K., Shaw-Smith C., Shen H., Sheridan E.M., Shownkeen R., Skuce C.D., Smith M.L., Sotharan E.C., Steingruber H.E., Steward C.A., Storey R., Swann R.M., Swarbreck D., Tabor P.E., Taudien S., Taylor T., Teague B., Thomas K., Thorpe A., Timms K., Tracey A., Trevanion S., Tromans A.C., d'Urso M., Verduzco D., Villasana D., Waldron L., Wall M., Wang Q., Warren J., Warry G.L., Wei X., West A., Whitehead S.L., Whiteley M.N., Wilkinson J.E., Willey D.L., Williams G., Williams L., Williamson A., Williamson H., Wilming L., Woodmansey R.L., Wray P.W., Yen J., Zhang J., Zhou J., Zoghbi H., Zorilla S., Buck D., Reinhardt R., Poustka A., Rosenthal A., Lehrach H., Meindl A., Minx P.J., Hillier L.W., Willard H.F., Wilson R.K., Waterston R.H., Rice C.M., Vaudin M., Coulson A., Nelson D.L., Weinstock G., Sulston J.E., Durbin R.M., Hubbard T., Gibbs R.A., Beck S., Rogers J., Bentley D.R.Nature 434:325-337(2005) Mapping of transcription start sites of human retina expressed genes.Roni V., Carpio R., Wissinger B.BMC Genomics 8:42-42(2007) Retinoschisin, the X-linked retinoschisis protein, is a secreted photoreceptor protein, and is expressed and released by Weri-Rb1 cells.Grayson C., Reid S.N., Ellis J.A., Rutherford A., Sowden J.C., Yates J.R., Farber D.B., Trump D.Hum. 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NCBI AND UNIPROT INFORMATION

|                                  |                 |
|----------------------------------|-----------------|
| NCBI GI #                        | 10835083        |
| NCBI GeneID                      | 6247            |
| NCBI Accession #                 | NP_000321.1     |
| NCBI GenBank Nucleotide #        | NM_000330.3     |
| UniProt Accession #              | O15537; Q0QD39  |
| Molecular Weight                 | 27 kDa          |
| NCBI Official Full Name          | retinoschisin   |
| NCBI Official Synonym Full Names | retinoschisin 1 |
| NCBI Official Symbol             | RS1             |
| NCBI Official Synonym Symbols    | RS; XLRS1       |
| NCBI Protein Information         | retinoschisin   |
| UniProt Protein Name             | Retinoschisin   |
| UniProt Gene Name                | <b>RS1</b>      |
| UniProt Synonym Gene Names       | XLRS1           |
| UniProt Entry Name               | XLRS1_HUMAN     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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