



# Recombinant Human Bystin (BYSL)

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| <b>Product Code</b>      | CSB-YP615722HU  |
| <b>Abbreviation</b>      | BYSL  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<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.  |
| <b>Uniprot No.</b>       | Q13895  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | MPKFKAARGV GGQEKHAPLA DQILAGNAVR AGVREKRRGR GTGEAEEEEYV<br>GPRLSRRILQ QARQQQEELE AEHGTGDKPA APRERTTRLG PRMPQDGSDD<br>EDEEWPTLEK AATMTAAGHH AEVVVDPEDE RAIEMFMNKN PPARRTLADI<br>IMEKLTEKQT EVETVMSEVS GFPMPQLDPR VLEVYRGVRE VLSKYRSGKL<br>PKAFKIIPAL SNWEQILYVT EPEAWTAAAM YQATRIFASN LKERMAQRFY<br>NLVLLPRVRD DVAEYKRLNF HLYMALKKAL FKPGAWFKGI LIPLCESGTC<br>TLREAIIVGS IITKCSIPVL HSSAAMLKIA EMEYSGANSI FLRLLLDKKY<br>ALPYRVLDAL VFHFLGFRTE KRELPLVWHQ CLLTLVQRYK ADLATDQKEA<br>LLELLRLQPH PQLSPEIRRE LQSAVPRDVE DVPITVE   |
| <b>Source</b>            | Yeast   |
| <b>Target Names</b>      | BYSL  |
| <b>Protein Names</b>     | Recommended name: Bystin  |
| <b>Expression Region</b> | 1-437   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | full length protein   |
| <b>Target Details</b>    | Bystin is expressed as a 2-kb major transcript and a 3.6-kb minor transcript in SNG-M cells and in human trophoblastic teratocarcinoma HT-H cells. Protein binding assays determined that bystin binds directly to trophinin and tastin, and that binding is enhanced when cytokeratins 8 and 18 are present. Immunocytochemistry of HT-H cells showed that bystin colocalizes with trophinin, tastin, and the cytokeratins, suggesting that these molecules form a complex in trophectoderm cells at the time of implantation. Using immunohistochemistry it was determined that trophinin and bystin are found in the placenta from the sixth week of pregnancy. Both proteins were localized in the cytoplasm of the syncytiotrophoblast in the chorionic villi and in endometrial decidual cells at the uteroplacental interface. After week 10, the levels of trophinin, tastin, and bystin decreased and then disappeared from placental villi. |



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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