



# Recombinant Rickettsia typhi Thymidylate synthase thyX (thyX)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP724314RNE                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Abbreviation</b>      | thyX                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>       | Q68X70                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b> | Rickettsia typhi (strain ATCC VR-144 / Wilmington)                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>          | MHNTTKRVTV PALEAMLYET IKVLDHGFIR VIDYMGDDSS IVQAARVSYG<br>KGTKQLNQDK GLINYLLRHY HTTPFEMCDI KFHKLPIFI ARQWIRHRTA<br>SVNEYSARYS ILGNEFYLPPE PTDIASQSAI NKQCRAGDSL PKKVSEKVL<br>ILEEDARRCY MHYKELMNAD EDGNIIDENV AGIARELARM NLTLNYYTEW<br>YWKINLHLL HFLRLRTDSK AQYEIRVYAG KILDIVKAWV PFTYEAFEEY<br>RLQGANISRK GLEVIKRM IQ GEKVIHETSG MNKREWEELV KIFR                                                           |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Target Names</b>      | thyX                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Names</b>     | Recommended name: Thymidylate synthase thyX Short name= TS Short name= TSase EC= 2.1.1.148                                                                                                                                                                                                                                                                                                                  |
| <b>Expression Region</b> | 1-294                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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>Reconstitution</b>    | 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. |
| <b>Shelf Life</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.                                                                                                                          |