



# Recombinant *Desulfotalea psychrophila*

## Bifunctional protein FoD (foD)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Code</b>      | CSB-EP731774DAAA-B                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Abbreviation</b>      | foD                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>       | Q6ALZ5                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b> | <i>Desulfotalea psychrophila</i> (strain LSv54 / DSM 12343)                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>          | MSAKIISGTE IRKEILGEIK DAVTEMKDKY GTVPGLVTIL VGESPASMSY<br>VSLKIKTALS LGFYEVQESL SVETTEAELL ALIEKYNDD SIHGVLVQLP<br>LPKHINEQNI ITAIDPDKDV DAFHPVNIGR LMIGGDDVKF LPCTPAGIQE<br>MLVRSGVETA GAEVVVVGRS NIVGKPIAMM MAQKGIGANA TVTIVHTGSR<br>DLATHCRRAD ILIVAAGVPN LVKPEWIKPG ATVIDVGVNR VGTNSETGKA<br>ILRGDVFEEA VKEIAGKITP VPGGVGPMTI AMLMKNTLAS ALAHSS                                                         |
| <b>Source</b>            | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target Names</b>      | foD                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Names</b>     | Recommended name: Bifunctional protein FoD Including the following 2 domains: Methylenetetrahydrofolate dehydrogenase EC= 1.5.1.5<br>Methenyltetrahydrofolate cyclohydrolase EC= 3.5.4.9                                                                                                                                                                                                                    |
| <b>Expression Region</b> | 1-296                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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.                                                                                                                          |