



# Recombinant Histidine biosynthesis bifunctional protein HisB (hisB)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP717886YAH                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Abbreviation</b>      | hisB                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>       | Q66C51                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen Species</b> | Yersinia pseudotuberculosis serotype I (strain IP32953)                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sequence</b>          | MSQKFLFIDR DGTIIAEPPT DYQVDRLDKL ALEPDVIPAL LALQKADYKL<br>VMITNQDGLG TSSFPQETFD PPHNLMMQIL TSQGINFEQI LICPHLPEDN<br>CTCRKPKTAL VESYLADGVM NSATSYVIGD RETDLQLAEN MGISGLRYQR<br>DGLNWTQIAK QLTQRDRHAY VNRVTKETAI DVNVWLDREG GSKIKTGVGF<br>FDHMLDQIAT HGGFRMDIQV SGDLYIDDDH TVEDTALALG EAINIALGDK<br>RGIGRFGFVL PMDECLARCA LDISGRPHLE YKAEFNYQRV GDLSTEMVEH<br>FFRSLSYAMA CTLHLKTKGR NDHHRVESLF KVFGRTLRLQA IRVEGNTLPS<br>SKGVL |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target Names</b>      | hisB                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Names</b>     | Recommended name: Histidine biosynthesis bifunctional protein HisB Including the following 2 domains: Histidinol-phosphatase EC= 3.1.3.15 Imidazoleglycerol-phosphate dehydratase Short name= IGPD EC= 4.2.1.19                                                                                                                                                                                                              |
| <b>Expression Region</b> | 1-355                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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.