



# Recombinant Escherichia coli O81 1-deoxy-D-xylulose-5-phosphate synthase (dxs)

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| <b>Product Code</b>      | CSB-MP484459EOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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>       | B7MQD5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen Species</b> | Escherichia coli O81 (strain ED1a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>            | >85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequence</b>          | MSFDIAKYPT LALVDSTQEL RLLPKESLPK LCDELRRYLL DSVSRSSGHF<br>ASGLGTVELT VALHYVYNTF FDQLIWDVGH QAYPHKILTG RRDKIGTIRQ<br>KGGLHPPFWR GESEYDVLSV GHSSTSISAG IGIAVAAEKE GKNRRTVCVI<br>GDGAITAGMA FEAMNHAGDI RPDMLVVLND NEMSIENVG ALNNHLAQLL<br>SGKLYSSLRE GGKKVFSGVP PIKELLKRT EHIKGMVVPGLFEELGFNY<br>IGPVDGHDVL GLITTLKNMR DLKGPQFLHI MTKKGRGYEP AEKDPITFHA<br>VPKFDPSGC LPKSSGGLPS YSKIFGDWLC ETAAKDNKLM AITPAMREGS<br>GMVEFSRKFP DRYFDVAIAE QHAVTFAAGL AIGGYKPIVA IYSTFLQRAY<br>DQVLHDVAIQ KLPVLFADR AGIVGADGQT HQGAFDLSYL RCIPVMVIMT<br>PSDENECRQM LYTGYYHNDG PSAVRYPRGN AVGVELTPLE KLPIGKIVK<br>RRGEKLAILN FGTLMPAAK VAESLNATLV DMRFKPLDE ALILEMAASH<br>EALVTVEENA IMGGAGSGVN EVLMAHRKPV PVLNIGLPDF FIPQGTQEEM<br>RAELGLDATG MEAKIKAWLA |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Target Names</b>      | dxs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Names</b>     | Recommended name: 1-deoxy-D-xylulose-5-phosphate synthase EC= 2.2.1.7<br>Alternative name(s): 1-deoxyxylulose-5-phosphate synthase Short name= DXPS<br>synthase Short name= DXPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expression Region</b> | 1-620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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.                                                                                                                                                                                                                                                                                                                          |



## Shelf Life

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