



# Recombinant Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (otsA)

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| <b>Product Code</b>      | CSB-EP808210EGX-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Abbreviation</b>      | otsA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>       | Q8FGN6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Immunogen Species</b> | Escherichia coli O6:H1 (strain CFT073 / ATCC 700928 / UPEC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sequence</b>          | MSRLVVVSNR IAPPDEHAAS AGGLAVGILG ALKAAGGLWF GWSGETGNED<br>QPLKKVKKGN ITWASFNLSE QDLDEYYNKF SNAVLWPAFH YRLDLVQFQR<br>PAWDGYLRVN ALLADKLLPL LQDDDIWIH DYHLLPFAHE LRKRGVNNRI<br>GFFLHIPFPT PEIFNALPTY DTLLEQLCDY DLLGFQTEND RLAFLDCLSN<br>LTRVTTRSAK SHTACGKA FR TEVYPIGIEP KEIAKQAAGP LPPKLAQLKA<br>ELKNVQNIFS VERLDYSKGL PERFLAYEAL LEKYPQHHGK IRYTQIPTS<br>RGDVQAYQDI RHQLENEAGR INGKYGQLGW TPLYYNQHF DRKLLMKIFR<br>YSDVGLVTPL RDGMNLVAKE YVAAQDPANP GVLVLSQFAG AANELTSALI<br>VNPYDRDEVA AALDRALTMS LAERISRHA E MLDVIVKNDI NHWQECFISD<br>LKQIVPRSAE SQQRDKVATF PKLA |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target Names</b>      | otsA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Names</b>     | Recommended name: Alpha,alpha-trehalose-phosphate synthase [UDP-forming] EC= 2.4.1.15 Alternative name(s): Osmoregulatory trehalose synthesis protein A Trehalose-6-phosphate synthase UDP-glucose-glucosephosphate glucosyltransferase                                                                                                                                                                                                                                                                                                                             |
| <b>Expression Region</b> | 1-474                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <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

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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.