



# Recombinant CarnitinyI-CoA dehydratase (caiD)

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| <b>Product Code</b>      | CSB-MP811316EGX                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Abbreviation</b>      | caiD                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>       | Q8FLA6                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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>          | SESLHLTRN GSILEITLDR PKANAIDAKT SFEMGEVFLN FRDDPQLRVA<br>IITGAGEKFF SAGWDLKAAA EGEAPDADFG PGGFAGLTEI FNLDKPVIAA<br>VNGYAFGGGF ELALAADFIV CADNASFALP EAKLGIVPDS GGVLRLPKIL<br>PPAIVNEMVM TGRRMGAEEA LRWGVVNRVV SQAELMDNAR<br>ELAQQLVNSA PLAIAALKEI YRTTSEMPVE EAYRYIRSGV LKHYPVLHS<br>EDAIEGPLAF AEKRDPVWKG R                                                                                                |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target Names</b>      | caiD                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Names</b>     | Recommended name: CarnitinyI-CoA dehydratase EC= 4.2.1.- Alternative name(s): Crotonobetainyl-CoA hydratase                                                                                                                                                                                                                                                                                                 |
| <b>Expression Region</b> | 2-261                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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 of Mature 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.                                                                                                                          |