



# Recombinant Rickettsia typhi Isocitrate dehydrogenase [NADP] (icd)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-EP734714RNE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Abbreviation</b>      | icd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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>       | Q68XA5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen Species</b> | Rickettsia typhi (strain ATCC VR-144 / Wilmington)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Sequence</b>          | MAEFTPITIA YGDGIGPEIM DAVLYILRQA EARISLETIE VGEKLYKKHY<br>TSGISEESWN VIQRTGIILK APITTPQSGG YKSLNVTIRK TLQLFANIRP<br>AVSFHPFTRT LHPNLNLTII RENEEDLYSG IEYRQTHNMY ESLKLISHTG<br>CKKIIRYAFE YAVKNNRKKV TCLSKDNIMK FSDGIFHRVF NEIAKEYPQI<br>DNEHYIIDIG TAKLATTPEI FDIIVTSNLY GDIISDVAAE ISGSVGLAGS<br>ANIGQHYAMF EAVHGSAPDI AGKGIANPSG LLNAAIMMLV HIGQGDIASL<br>IENAWKKTIE DGVHTFDIYS EHSSSKKVCT KEFAEEVIKR LGQLPMTLPK<br>ASYPLIVKKQ ESKIEYKIDT TEVKKLVGTD IFINIHVFSA HDIADKINKL<br>DIGNFELKTI SSKGLKLWPH DLRFEIISDH WCCRFRMNKDG TEIKHLDIII<br>LLQALSKANI DFIKVENLFE FDGVACYSLA QGE |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>      | icd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Names</b>     | Recommended name: Isocitrate dehydrogenase [NADP] Short name= IDH EC= 1.1.1.42 Alternative name(s): IDP NADP(+)-specific ICDH Oxalosuccinate decarboxylase                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Expression Region</b> | 1-483                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                      |



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.