Recombinant Human Isocitrate dehydrogenase [NADP], mitochondrial (IDH2)

Product Code	CSB-EP010990HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P48735
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	A DKRIKVAKPV VEMDGDEMTR IIWQFIKEKL ILPHVDIQLK YFDLGLPNRD QTDDQVTIDS ALATQKYSVA VKCATITPDE ARVEEFKLKK MWKSPNGTIR NILGGTVFRE PIICKNIPRL VPGWTKPITI GRHAHGDQYK ATDFVADRAG TFKMVFTPKD GSGVKEWEVY NFPAGGVGMG MYNTDESISG FAHSCFQYAI QKKWPLYMST KNTILKAYDG RFKDIFQEIF DKHYKTDFDK NKIWYEHRLI DDMVAQVLKS SGGFVWACKN YDGDVQSDIL AQGFGSLGLM TSVLVCPDGK TIEAEAAHGT VTRHYREHQK GRPTSTNPIA SIFAWTRGLE HRGKLDGNQD LIRFAQMLEK VCVETVESGA MTKDLAGCIH GLSNVKLNEH FLNTTDFLDT IKSNLDRALG RQ
Source	E.coli
Target Names	IDH2
Protein Names	Recommended name: Isocitrate dehydrogenase [NADP], mitochondrial Short name= IDH EC= 1.1.1.42 Alternative name(s): ICD-M IDP NADP(+)-specific ICDH Oxalosuccinate decarboxylase
Expression Region	40-452
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. This protein is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex.
Reconstitution	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.