Recombinant Human Isovaleryl-CoA dehydrogenase, mitochondrial (IVD)

Product Code	CSB-EP011921HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P26440
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	H SLLPVDDAIN GLSEEQRQLR QTMAKFLQEH LAPKAQEIDR SNEFKNLREF WKQLGNLGVL GITAPVQYGG SGLGYLEHVL VMEEISRASG AVGLSYGAHS NLCINQLVRN GNEAQKEKYL PKLISGEYIG ALAMSEPNAG SDVVSMKLKA EKKGNHYILN GNKFWITNGP DADVLIVYAK TDLAAVPASR GITAFIVEKG MPGFSTSKKL DKLGMRGSNT CELIFEDCKI PAANILGHEN KGVYVLMSGL DLERLVLAGG PLGLMQAVLD HTIPYLHVRE AFGQKIGHFQ LMQGKMADMY TRLMACRQYV YNVAKACDEG HCTAKDCAGV ILYSAECATQ VALDGIQCFG GNGYINDFPM GRFLRDAKLY EIGAGTSEVR RLVIGRAFNA DFH
Source	E.coli
Target Names	IVD
Protein Names	Recommended name: Isovaleryl-CoA dehydrogenase, mitochondrial Short name= IVD EC= 1.3.99.10
Expression Region	30-423
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	Isovaleryl-CoA dehydrogenase (IVD) is a mitochondrial matrix enzyme that catalyzes the third step in leucine catabolism. The genetic deficiency of IVD results in an accumulation of isovaleric acid, which is toxic to the central nervous system and leads to isovaleric acidemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
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.