



# Recombinant Human Isovaleryl-CoA dehydrogenase, mitochondrial (IVD)

<b>Product Code</b>	CSB-MP011921HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P26440
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	H SLLPVDDAIN GLSEEQRQLR QTMAKFLQEH LAPKAQEIDR SNEFKNLREF WKQLGNLGLV GITAPVQYGG SGLGYLEHVL VMEEISRASG AVGLSYGAHS NLCINQLVRN GNEAQKEKYL PKLISGEYIG ALAMSEPNAG SDVVSMKLKA EKKGNHYILN GNKFWITNGP DADVLIVYAK TDLA AVPASR GITAFIVEKG MPGFSTSKKL DKLGMGRGSNT CELIFEDCKI PAANILGHEN KGVYVLM SGL DLERLVL AGG PLGLMQAVLD HTIPLYLVRE AFGQKIGHFQ LMQGKMADMY TRLMACRQYV YNVAKACDEG HCTAKDCAGV ILYSAECATQ VALDGIQCFG GNGYINDFPM GRFLRDAKLY EIGAGTSEVR RLVIGRAFNA DFH
<b>Source</b>	Mammalian cell
<b>Target Names</b>	IVD
<b>Protein Names</b>	Recommended name: Isovaleryl-CoA dehydrogenase, mitochondrial Short name= IVD EC= 1.3.99.10
<b>Expression Region</b>	30-423
<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>Target Details</b>	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.
<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.