Recombinant Human NAD-dependent malic enzyme, mitochondrial (ME2)

Product Code	CSB-MP013633HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P23368
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	LH IKEKGKPLML NPRTNKGMAF TLQERQMLGL QGLLPPKIET QDIQALRFHR NLKKMTSPLE KYIYIMGIQE RNEKLFYRIL QDDIESLMPI VYTPTVGLAC SQYGHIFRRP KGLFISISDR GHVRSIVDNW PENHVKAVVV TDGERILGLG DLGVYGMGIP VGKLCLYTAC AGIRPDRCLP VCIDVGTDNI ALLKDPFYMG LYQKRDRTQQ YDDLIDEFMK AITDRYGRNT LIQFEDFGNH NAFRFLRKYR EKYCTFNDDI QGTAAVALAG LLAAQKVISK PISEHKILFL GAGEAALGIA NLIVMSMVEN GLSEQEAQKK IWMFDKYGLL VKGRKAKIDS YQEPFTHSAP ESIPDTFEDA VNILKPSTII GVAGAGRLFT PDVIRAMASI NERPVIFALS NPTAQAECTA EEAYTLTEGR CLFASGSPFG PVKLTDGRVF TPGQGNNVYI FPGVALAVIL CNTRHISDSV FLEAAKALTS QLTDEELAQG RLYPPLANIQ EVSINIAIKV TEYLYANKMA FRYPEPEDKA KYVKERTWRS EYDSLLPDVY EWPESASSPP VITE
Source	Mammalian cell
Target Names	ME2
Protein Names	Recommended name: NAD-dependent malic enzyme, mitochondrial Short name= NAD-ME EC= 1.1.1.38 Alternative name(s): Malic enzyme 2
Expression Region	19-584
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	This gene encodes a mitochondrial NAD-dependent malic enzyme, a homotetrameric protein, that catalyzes the oxidative decarboxylation of malate to pyruvate. It had previously been weakly linked to a syndrome known as Friedreich ataxia that has since been shown to be the result of mutation in a completely different gene. Certain single-nucleotide polymorphism haplotypes of this gene have been shown to increase the risk for idiopathic generalized epilepsy. Alternatively spliced transcript variants encoding different isoforms 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.