Recombinant Human Alpha-aminoadipic semialdehyde dehydrogenase (ALDH7A1)

Product Code	CSB-MP001579HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P49419
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	AFMS TLLINQPQYA WLKELGLREE NEGVYNGSWG GRGEVITTYC PANNEPIARV RQASVADYEE TVKKAREAWK IWADIPAPKR GEIVRQIGDA LREKIQVLGS LVSLEMGKIL VEGVGEVQEY VDICDYAVGL SRMIGGPILP SERSGHALIE QWNPVGLVGI ITAFNFPVAV YGWNNAIAMI CGNVCLWKGA PTTSLISVAV TKIIAKVLED NKLPGAICSL TCGGADIGTA MAKDERVNLL SFTGSTQVGK QVGLMVQERF GRSLLELGGN NAIIAFEDAD LSLVVPSALF AAVGTAGQRC TTARRLFIHE SIHDEVVNRL KKAYAQIRVG NPWDPNVLYG PLHTKQAVSM FLGAVEEAKK EGGTVVYGGK VMDRPGNYVE PTIVTGLGHD ASIAHTETFA PILYVFKFKN EEEVFAWNNE VKQGLSSSIF TKDLGRIFRW LGPKGSDCGI VNVNIPTSGA EIGGAFGGEK HTGGGRESGS DAWKQYMRRS TCTINYSKDL PLAQGIKFQ
Source	Mammalian cell
Target Names	ALDH7A1
Protein Names	Recommended name: Alpha-aminoadipic semialdehyde dehydrogenase Short name= Alpha-AASA dehydrogenase EC= 1.2.1.31 Alternative name(s): Aldehyde dehydrogenase family 7 member A1 EC= 1.2.1.3 Antiquitin-1 Betaine aldehyde
Expression Region	27-539
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	Antiquitin is a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular member has homology to a previously described protein from the green garden pea, the 26g pea turgor protein. Mutations in this gene cause pyridoxine-dependent epilepsy, which involves a combination of various seizure types and is responsive to immediate administration of pyridoxine hydrochloride. Four additional human antiquitin-like sequences, all of which are pseudogenes, have also been identified.

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.