

Succinate-semialdehyde dehydrogenase, mitochondrial (ALDH5F1), Recombinant Protein

Cat RP13814

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Succinate-semialdehyde dehydrogenase, mitochondrial (ALDH5F1)

Product Gene Name

ALDH5F1 recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

SVDAGAAAMEK VRAAGLLRTQ GLIGGKWVDA YDGKTIEVQN PATGETLANV SCMGSKETSD AIASAHSTFY
SWSKLTANER SKALRKWHDL IISHKEELAL LMTLEQGKPM KEALVEVTYG ASFIEYFAEE AKRIYGDIIIP
PTLSDRRLLV LKQPVGVVGA VTPWNFPLAM ITRKVGPA LA CGCTVVVKPS EFTPLTALAA ADLALQAGIP
AGAINVVMGN APEIGDALLQ STQVRKITFT GSTAVGKKLM AGSANTVKKV SLELGGNAPC IVFDDADIDV
AIKGSAAKF RNSGQTCVCA NRILVQEGY EKFASAFIKA VQSLKVGNGL EESTSQGPLI NEAAVQKVEK
FINDATSKGA NIMLGGRHS LGMSFYPTV VGNVSNMMLL FREEVFGPVA PLVPFKTEED AIRMANDTNA
GLAAYIFTKS IPRSWRVSEA LEYGLVGVNE GIISTEVAPF GGKQSGGLGR EGSKYGMDEY LELKYICMGN LN

Sequence Positions

36-527, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

56,094 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

XP_015627266.1

NCBI GI

1002246187

NCBI GenBank Nucleotide

XM_015771780.1

NCBI GenID

9267109

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Succinate-semialdehyde dehydrogenase, mitochondrial (ALDH5F1), Recombinant Protein

Cat *RP13814*

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
succinate-semialdehyde dehydrogenase, mitochondrial

NCBI Official Symbol

LOC9267109

NCBI Official Synonym Symbols

SSADH1; ALDH5F1; OsJ_05574

NCBI Protein Information

succinate-semialdehyde dehydrogenase, mitochondrial

UniProt Gene Name

ALDH5F1

UniProt Synonym Gene Names

SSADH1

UniProt Protein Name

Succinate-semialdehyde dehydrogenase, mitochondrial

UniProt Synonym Protein Names

Aldehyde dehydrogenase family 5 member F1; NAD(+)-dependent succinic semialdehyde dehydrogenase

UniProt Primary Accession

B9F3B6

UniProt Secondary Accession

C7IY98

UniProt Related Accession

B9F3B6

UniProt Comments

Oxidizes specifically succinate semialdehyde. Involved in plant response to environmental stress by preventing the accumulation of reactive oxygen species .

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY