

Isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial (IDH5), Recombinant Protein

Cat RP02089

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)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial (IDH5)

Product Gene Name

IDH5 recombinant protein

Product Synonym Gene Name

IDH5

Purity

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

Sequence

TATLFPDGI GPEIAESVKK VFTTAGVPIE WEEHYVGTEI DPRTQSFLTW ESLESVRRNK VGLKGPMATP
IGKGHRSLNL TLRKELNLYA NVRPCYSLPG YKTRYDDVDL ITIRENTEGE YSGLEHQVVR GVVESLKIIT
RQASLRVAEY AFLYAKTHGR ERVSAIHKAN IMQKTDGLFL KCCREVAEKY PEITYEEVVI DNCCMMLVKN
PALFDVLVMP NLYGDIISDL CAGLVGGLGL TPSCNIGEDG VALAEAVHGS APDIAGKNLA NPTALLSGV
MMLRHLKFNE QAEQIHSAIL NTIAEGKYRT ADLGGSTTT EFTKAICDHL

Sequence Positions

45-374, 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

40,625 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.

Protein Family

Isocitrate dehydrogenase

NCBI Accession

NP_568113.1

NCBI GI

18414179

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GeneID
NM_120407.8
831884

NCBI Official Full Name

isocitrate dehydrogenase V

NCBI Official Symbol

IDH-V

NCBI Official Synonym Symbols

F12E4.20; F12E4_20; isocitrate dehydrogenase V

NCBI Protein Information

isocitrate dehydrogenase V

NCBI Summary

Encodes a catalytic subunit of the mitochondrially-localized NAD⁺- dependent isocitrate dehydrogenase.

UniProt Gene Name

IDH5

UniProt Protein Name

Isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial

UniProt Synonym Protein Names

IDH-V; Isocitric dehydrogenase 5; NAD(+)-specific ICDH 5

UniProt Primary Accession

Q945K7

UniProt Secondary Accession

Q9LZG1

UniProt Related Accession

Q945K7

UniProt Comments

Performs an essential role in the oxidative function of the citric acid cycle.

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