Bifunctional dihydrofolate reductase-thymidylate synthase (DRTS), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10433*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Bifunctional dihydrofolate reductase-thymidylate synthase (DRTS), partial

Product Gene Name
DRTS recombinant protein

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

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
58,966 Da

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

NCBI Accession
NP_001104916.1

NCBI GI
162464289

NCBI GenBank Nucleotide
NM_001111446.1

NCBI GeneID
541707

NCBI Official Symbol
DRTS

NCBI Official Synonym Symbols
DHFR-TS; GRMZM2G005990

NCBI Protein Information
bifunctional dihydrofolate reductase-thymidylate synthase

UniProt Gene Name
DRTS

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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UniProt Synonym Gene Names
DHFR-TS

UniProt Protein Name
Bifunctional dihydrofolate reductase-thymidylate synthase

UniProt Primary Accession
O81395

UniProt Related Accession
O81395

UniProt Comments
Bifunctional enzyme. Involved in de novo dTMP biosynthesis. Key enzyme in folate metabolism. Can play two different roles depending on the source of dihydrofolate: de novo synthesis of tetrahydrofolate or recycling of the dihydrofolate released as one of the end products of the TS catalyzed reaction. Catalyzes an essential reaction for de novo glycine and purine synthesis, DNA precursor synthesis, and for the conversion of dUMP to dTMP .

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