

NADP-dependent malic enzyme, chloroplastic (MOD1), Recombinant Protein

Cat *RP10458*

Species

Zea mays (Maize)

Full Product Name

Recombinant Zea mays NADP-dependent malic enzyme, chloroplastic (MOD1), partial

Product Gene Name

MOD1 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

69,824 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

NP_001105313.1

NCBI GI

162459265

NCBI GenBank Nucleotide

NM_001111843.1

NCBI GeneID

542233

NCBI Official Full Name

NADP-dependent malic enzyme, chloroplastic

NCBI Official Symbol

me3

NCBI Official Synonym Symbols

NADP-ME; GRMZM2G085019

NCBI Protein Information

NADP-dependent malic enzyme, chloroplastic

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

NADP-dependent malic enzyme, chloroplastic (MOD1), Recombinant Protein

Cat *RP10458*

UniProt Gene Name

MOD1

UniProt Synonym Gene Names

ME1; NADP-ME

UniProt Protein Name

NADP-dependent malic enzyme, chloroplastic

UniProt Primary Accession

P16243

UniProt Related Accession

P16243

UniProt Comments

The chloroplastic ME isoform decarboxylates malate shuttled from neighboring mesophyll cells. The CO₂ released is then refixed by ribulose-bisphosphate carboxylase. This pathway eliminates the photorespiratory loss of CO₂ that occurs in most plants.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY
