

# Acyl-[acyl-carrier-protein] desaturase, chloroplastic (LOC8271760), Recombinant Protein

Cat *RP19095*

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-Ricinus communis (Castor bean) Cell)*

## Full Product Name

Recombinant *Ricinus communis* Acyl-[acyl-carrier-protein] desaturase, chloroplastic

## Product Gene Name

LOC8271760 recombinant protein

## Purity

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

## Sequence

ASTLKSQSKE VENLKKPFMP PREVHVQVTH SMPPQKIEIF KSLDNWAEEN ILVHLKPVEK CWQPQDFLDP  
PASDGFDEQV RELRERAKEI PDDYFVVLVG DMITEEALPT YQTMLNTLDG VRDETGASPT SWAIWTRAWT  
AEENRHGDLN NKYLYLSGRV DMRQIEKTIQ YLIGSGMDPR TENSPLYGFI YTSFQERATF ISHGNTARQA  
KEHGDILKLAQ ICGTIAADEK RHETAYTKIV EKLFEIDPDG TVLAFADMMR KKISMPAHLN YDGRDDNLF  
HFSAVAQRLG VYTAKDYADI LEFLVGRWKV DKLTGLSAEG QKAQDYVCRL PPRIRLRLEER AQGRAKEAPT  
MPFSWIFDRQ VKL

## Sequence Positions

34-396, 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

45,371 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

Acyl-[acyl-carrier-protein] desaturase

## NCBI Accession #

NP\_001310659.1

## NCBI GI #

1021312192

## NCBI GenBank Nucleotide #

NM\_001323730.1

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Acyl-[acyl-carrier-protein] desaturase, chloroplastic (LOC8271760), Recombinant Protein

Cat RP19095

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

NCBI Gene ID (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-  
8271760 Cell)

## NCBI Official Full Name

stearoyl-[acyl-carrier-protein] 9-desaturase, chloroplastic

## NCBI Official Symbol

LOC8271760

## NCBI Protein Information

stearoyl-[acyl-carrier-protein] 9-desaturase, chloroplastic

## UniProt Gene Name

Stearoyl-ACP desaturase

## UniProt Synonym Gene Names

Stearoyl-ACP desaturase

## UniProt Protein Name

Stearoyl-[acyl-carrier-protein] 9-desaturase, chloroplastic

## UniProt Synonym Protein Names

Acyl-[acyl-carrier-protein] desaturase; Delta(9) stearoyl-acyl carrier protein desaturase

## UniProt Primary Accession #

P22337

## UniProt Related Accession #

P22337

## UniProt Comments

Converts stearoyl-ACP to oleoyl-ACP by introduction of a cis double bond between carbons 9 and 10 of the acyl chain.

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