

Acyl-[acyl-carrier-protein] desaturase, chloroplastic (Stearoyl-ACP desaturase), Recombinant Protein

Cat *RP15378*

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 *Solanum commersonii (Commerson's wild potato) (Commerson's nightshade)*

Full Product Name

Recombinant *Solanum commersonii* Acyl-[acyl-carrier-protein] desaturase, chloroplastic

Product Gene Name

Stearoyl-ACP desaturase recombinant protein

Purity

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

Sequence

ASTLRPPSVE DGNVKKPFSP PREVHVQVTH SMPPEKREIF DSLHGWADNN ILVHLKPVEK CWQASDFLPD
PASEGFEDQV KELRERCKEI PDDYFVVLVG DMITEEALPT YQTMLNTLDG VRDETGASLT PWAIWTRAWT
AEENRHGDLN NKYLYLSGRV DMRQIEKTIQ YLIGSGMDPR TENNPYLGFI YTSFQERATF ISHGNTARHA
KEHGDMKLAQ VCGIIAADEK RHETAYTKIV EKLFEVDPDG TVLAVADMMR KKISMPAHLM YDGRDDNLFE
HFSTVAQRLG VYTAKDYADI LEFLVGRWEI EKLTGLSGEG HKARDYVCGL APRIRKLEER AQARAKQKAP
VPFSWVFGKD IKL

Sequence Positions

31-393, 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

44,833 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 GI

94730426

NCBI Official Full Name

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

UniProt Gene Name

Stearoyl-ACP desaturase

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Acyl-[acyl-carrier-protein] desaturase, chloroplastic (Stearoyl- ACP desaturase), Recombinant Protein

Cat *RP15378*

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*

UniProt Synonym Gene Names
Mammalian-Cell Stearoyl-ACP desaturase

UniProt Protein Name

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

UniProt Synonym Protein Names

Acyl-[acyl-carrier-protein] desaturase

UniProt Primary Accession

Q41319

UniProt Comments

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

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY