

Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha (FTA), Recombinant Protein

Cat RP00375

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^{Cell}

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha (FTA)

Product Gene Name

FTA recombinant protein

Product Synonym Gene Name

FTA

Purity

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

Sequence

MNFDETVPLS QRLEWSDVVP LTQDDGPNPV VPIAYKEEFR ETMDYFRAIY FSDERSPRAL RLTEETLLLN
SGNYTVWHFR RLVLEALNHD LFEELEFIER IAEDNSKNYQ LWHHRRWVAE KLGPDVAGRE LEFTRRVLSL
DAKHYPHAWSH RQWTLRALGG WEDELDCHE LLEADVFNNS AWNQRYVIT QSPLLGGLEA MRESEVSYTI
KAILTNPANE SSWRYLKALY KDDKESWISD PSVSSVCLNV LSRTDCFHGF ALSTLLDLLC DGLRPTNEHK
DSVRALANEE PETNLANLVC TILGRVDPVR ANYWAWRKS ITVAAI

Sequence Positions

1-326, 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

37,985 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_567084.1

NCBI GI

18411158

NCBI GenBank Nucleotide

NM_115800.6

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

825107

NCBI Official Full Name

farnesyltransferase A

NCBI Official Symbol

FTA

NCBI Official Synonym Symbols

ATFTA; farnesyltransferase A; FARNESYLTRANSFERASE A; FARNESYLTRANSFERASE SUBUNIT A; PFT/PGGT-IALPHA; PLP; PLURIPETALA

NCBI Protein Information

farnesyltransferase A

NCBI Summary

Encodes the alpha-subunit shared between protein farnesyltransferase and protein geranylgeranyltransferase-I. Involved in protein prenylation: covalent attachment of the C-15 isoprene farnesyl or the C-20 isoprene geranylgeranyl groups to the C-terminal end of some proteins. Involved in shoot and flower meristem homeostasis, and response to ABA and drought. Also regulates leaf cell shape. Mutant is epistatic to era1.

UniProt Gene Name

FTA

UniProt Synonym Gene Names

GGTase-I-alpha

UniProt Protein Name

Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha

UniProt Synonym Protein Names

CAAX farnesyltransferase subunit alpha; FTase-alpha; Ras proteins prenyltransferase subunit alpha; Type I protein geranyl-geranyltransferase subunit alpha; GGTase-I-alpha

UniProt Primary Accession

Q9LX33

UniProt Secondary Accession

O65346

UniProt Related Accession

Q9LX33

UniProt Comments

Essential subunit of both the farnesyltransferase and the geranylgeranyltransferase complex. Contributes to the transfer of a farnesyl or geranylgeranyl moiety from farnesyl or geranylgeranyl diphosphate to a cysteine at the

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fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic-aliphatic-X.

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