

Actin-depolymerizing factor 4 (ADF4), Recombinant Protein

Cat RP11274

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Actin-depolymerizing factor 4 (ADF4)

Product Gene Name

ADF4 recombinant protein

Product Synonym Gene Name

ADF4

Purity

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

Sequence

MANSSSGVAI HDDCKLKFNE LQSKRMHRFI TFMMDNKGKE IIVDKIGDRT TSYEDFTSSL PEGDCRFAIY DFDLTAEDV PKSRIFYILW SPDNAKVRSK MLYASSNERF KKELNGIQLE VQATDAGEIS LDALKDRVK

Sequence Positions

1-139, 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

15,946 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

Actin-depolymerizing factor

NCBI Accession

XP_015632174.1

NCBI GI

1002255785

NCBI GenBank Nucleotide

XM_015776688.1

NCBI GeneID

4334595

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name
mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
actin-depolymerizing factor 4

NCBI Official Symbol

LOC4334595

NCBI Official Synonym Symbols

ADF4; ADF-4; OsADF4; OJ1754_E06.22

NCBI Protein Information

actin-depolymerizing factor 4

UniProt Gene Name

ADF4

UniProt Synonym Gene Names

ADF-4; OsADF4

UniProt Protein Name

Actin-depolymerizing factor 4

UniProt Primary Accession

Q84TB3

UniProt Secondary Accession

B7E3A0

UniProt Related Accession

Q84TB3

UniProt Comments

Actin-depolymerizing protein. Severs actin filaments (F-actin) and binds to actin monomers . Involved in innate immunity. Required for the expression of defense-related genes PR1A, LOX2 and CHS1 upon biotic stresses. Required for basal resistance to the fungal blast (*Magnaporthe grisea*), bacterial blight (*Xanthomonas oryzae* pv. *oryzae*, Xoo) and the herbivorous insect brown planthopper (*Nilaparvata lugens*, BPH). Involved in the promotion of seed germination. Required for the expression of alpha-amylase genes during seed germination (PubMed:24033867).

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