Acetyltransferase NSI (NSI), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP00517*

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)/ 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
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Acetyltransferase NSI (NSI)

Product Gene Name
NSI recombinant protein

Product Synonym Gene Name
NSI

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

Sequence
MLLIPISSSS SSSISPPPNS YPSNHHSLFF SNLTFPIQHG SRKLKTLRLR ANFWESIRSG FVKNNNSTQL VEPPSIVNDE EEETEPLLPV EFTLVERNLE DGLVEEIIFS SGGEIDVYDL QGLCDKVGWP RRPLVKLAAA LKNSYMVATL HSVMKSSSDS DSSEGGDGEK QQEKKLIGMA RATSDHAFNA TIWDVLVDPE YQGQGLGKAL VEKLVRALLQ RDIGNISLFA DSQVVDFYQN LGFEADPEGI KGMFWYPK

Sequence Positions
1-258, 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
28,520 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Acetyltransferase

NCBI Accession
NP_001077641.1

NCBI GI
145324104

NCBI GenBank Nucleotide
NM_001084172.1

NCBI GeneID

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840099

NCBI Official Full Name
nuclear shuttle interacting

NCBI Official Symbol
NSI

NCBI Official Synonym Symbols
ACETYLTRANSFERASE; ATNSI; nuclear shuttle interacting; T12O21.3; T12O21_3

NCBI Protein Information
nuclear shuttle interacting

NCBI Summary
Encodes a nuclear acetyltransferase (NSI)that interacts with the geminivirus movement protein NSP. This interaction is required for viral infection and systemic spread. Acetylates the viral coat protein (CP) in vitro, but not NSP. NSP inhibits NSI activity in vitro. NSI is highly transcribed in phloem and in xylem parenchyma cells, and in the apical meristem and guard cells, within young tissues in Arabidopsis, and its expression is turned off as tissues mature.

UniProt Gene Name
NSI

UniProt Protein Name
Acetyltransferase NSI

UniProt Synonym Protein Names
Nuclear shuttle protein-interacting protein

UniProt Primary Accession
Q7X9V3

UniProt Secondary Accession
Q8LD61; Q9C6X3; A8MRN8

UniProt Related Accession
Q7X9V3

UniProt Comments
Acetyltransferase that acetylates in vitro histones H2A and H3. Does not act as a transcriptional activator but might be involved in the sink-source transition. In case of begomoviruses infection, acetylates the capsid protein (CP), but not the nuclear shuttle protein (NSP). Required for begomovirus infection and systemic spread.

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