

Protein SGT1 homolog A (SGT1A), Recombinant Protein

Cat RP04623

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

Species mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein SGT1 homolog A (SGT1A)

Product Gene Name

SGT1A recombinant protein

Product Synonym Gene Name

SGT1A

Purity

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

Sequence

MAKELADKAK EAFVDDDFDV AVDLYSKAID LDPNCAEFFA DRAQAYIKLE SFTEAVADAN KAIELDPSLT
KAYLRKGTA MKLEEYRTAK TALEKGASIT PSESKFKKLI DECNFLITEE EKDLVQPVPS TLPSSVTAPP
VSELDVTPTA KYRHEYYQKP EEVVVTVFAK GIPKQNVNID FGEQILSVVI EVPGEDAYYL QPRLFGKII
DKCKYEVNST KIEICLAKAD IITWASLEHG KGPAVLPKPN VSSEVSQRPA YPSSKKVKDW DKLEAEVKKQ
EKDEKLEGDA ALNKFFREIY QNADEDMRRA MSKSFVESNG TVLSTNWQEV GTKTIESTPP DGMELKKWEI

Sequence Positions

1-350, 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

39,296 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

Protein

NCBI Accession

NP_001031704.1

NCBI GI

79325237

NCBI GenBank Nucleotide

NM_001036627.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID 828457
mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

phosphatase-like protein

NCBI Official Symbol

SGT1A

NCBI Official Synonym Symbols

F9D16.40; F9D16_40

NCBI Protein Information

phosphatase-like protein

NCBI Summary

Closely related to SGT1B, may function in SCF(TIR1) mediated protein degradation. AtSGT1a and AtSGT1b are functionally redundant in the resistance to pathogens. AtSGT1b was more highly expressed than AtSGT1. The N-terminal TPR domain of AtSGT1a reduces the steady-state level of *Arabidopsis* SGT1 proteins whereas the same domain from AtSGT1b enhances SGT1 accumulation. The TPR domain is dispensable for SGT1 resistance. AtSGT1a is induced upon pathogen infection and can function in R gene-mediated resistance.

UniProt Gene Name

SGT1A

UniProt Synonym Gene Names

AtSGT1a

UniProt Protein Name

Protein SGT1 homolog A

UniProt Synonym Protein Names

Suppressor of G2 allele of SKP1 homolog A

UniProt Primary Accession

Q9SUR9

UniProt Secondary Accession

Q84LL4; Q8W515

UniProt Related Accession

Q9SUR9

UniProt Comments

Functions in R gene-mediated resistance, but participates in a lower extent than SGT1B to RPP5-mediated resistance. Not required for RPM1, RPS2, RPS4 and RPS5-mediated resistance. Probably required for SCF-mediated ubiquitination, by coupling HSP90 to SCF complex for ubiquitination of HSP90 client proteins.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY