

# Tricin synthase 1 (ROMT-15), Recombinant Protein

Cat RP13829

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)  
Oryza sativa subsp. japonica (Rice)

## Full Product Name

Recombinant Oryza sativa subsp. japonica Tricin synthase 1 (ROMT-15)

## Product Gene Name

ROMT-15 recombinant protein

## Product Synonym Gene Name

ROMT-15

## Purity

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

## Sequence

MTTGNGDAPV IKNAHSDIDS TNKTLLKSDA LYKYVLDTTV LPREPECMRD LRLITDKHQW GFMQSSADEA  
QLLGMLLKMA GAKRTIEVGV FTGYSLLATA LALPEDGKVV AIDPDRESYE IGRPFLEKAG VAHKVDFREG  
KGLEKLDLLE AEEAAAAGREA AFDFAFVDAD KPNYVKYHEQ LLQLVRVGGH IVYDNTLWAG TVALPPDTPL  
SDLDRRFSVA IRDLNSRLAA DPRIDVCQLA IADGITICRR LV

## Sequence Positions

1-252, 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

27,772 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

Tricin synthase

## NCBI Accession #

XP\_015649764.1

## NCBI GI #

1002290854

## NCBI GenBank Nucleotide #

XM\_015794278.1

## NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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4345934 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  
tricin synthase 1

## NCBI Official Symbol

LOC4345934

## NCBI Official Synonym Symbols

COA20; ROMT-15; OsJ\_27813

## NCBI Protein Information

tricin synthase 1

## UniProt Gene Name

ROMT-15

## UniProt Synonym Gene Names

COA20

## UniProt Protein Name

Tricin synthase 1

## UniProt Synonym Protein Names

Caffeoyl-CoA 3-O-methyltransferase ROMT15

## UniProt Primary Accession #

Q9XGP7

## UniProt Secondary Accession #

Q7XXS6; A0A0P0XHD0; A3BUH5

## UniProt Related Accession #

Q9XGP7

## UniProt Comments

Catalyzes the stepwise methylation of tricetin to its 3'-mono- and 3',5'-dimethyl ethers. No 3',4',5'-trimethylated ester derivatives are produced. Can use caffeoyl-CoA, 5-hydroxyferulic acid, luteolin, tricetin, quercetin, myrcetin and 7,8-dihydroxyflavone as substrates, but not naringenin, apigenin or kaempferol. The 2,3-double bond and the O-dihydroxyl group of the substrate are both required for catalytic activity of the enzyme.

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