

Hydroxycinnamoyl-Coenzyme A shikimate/quinate hydroxycinnamoyltransferase (HCT), Recombinant Protein

Cat *RP00384*

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

Full Product Name

Recombinant Arabidopsis thaliana Hydroxycinnamoyl-Coenzyme A shikimate/quinate hydroxycinnamoyltransferase (HCT)

Product Gene Name

HCT recombinant protein

Product Synonym Gene Name

HCT

Purity

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

Sequence

MKINIRDSTM VRPATETPIT NLWNSNVDLV IPRFHTPSVY FYRPTGASNF FDPQVMKEAL SKALVPFYPM
AGRLKRDDDG RIEIDCNGAG VLFVVADTPS VIDDFGDFAP TLNLRQLIPE VDHSAGIHSF PLLVLQVTFF
KCGGASLGVG MQHHAADGFS GLHFINTWSD MARGLDLTIP PFIDRTLLRA RDPPQPAFHH VEYQPAPSMK
IPLDPSKSGP ENTTVSIFKL TRDQLVALKA KSKEDGNTVS YSSYEMLAGH VWRVSGKARG LPNDQETKLY
IATDGRSRLR PQLPPGYFGN VIFTATPLAV AGDLLSKPTW YAAGQIHDFL VRMDDNYLRS ALDYLEMQPD
LSALVRGAHT YKCPNLGITS WVRLPIYDAD FGWGRPIFMG PGGIPYEGLS FVLPSPNTDG SLSVAIALQS
EHMKLFEKFL FEI

Sequence Positions

1-433, 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

47,975 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_199704.1

NCBI GI

15239747

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GenBank Nucleotide #
NM_124270.4

NCBI GenID

834951

NCBI Official Full Name

hydroxycinnamoyl-CoA shikimate/quinate hydroxycinnamoyl transferase

NCBI Official Symbol

HCT

NCBI Official Synonym Symbols

hydroxycinnamoyl-CoA shikimate/quinate hydroxycinnamoyl transferase; K19E20.4; K19E20_4

NCBI Protein Information

hydroxycinnamoyl-CoA shikimate/quinate hydroxycinnamoyl transferase

NCBI Summary

At5g48930 has been shown to encode for the hydroxycinnamoyl-Coenzyme A shikimate/quinate hydroxycinnamoyltransferase (HCT) both synthesizing and catabolizing the hydroxycinnamoyl esters (coumaroyl/caffeoyl shikimate and quinate) involved in the phenylpropanoid pathway. Influence on the accumulation of flavonoids which in turn inhibit auxin transport and reduce plant growth.

UniProt Gene Name

HST

UniProt Synonym Gene Names

HCT

UniProt Protein Name

Shikimate O-hydroxycinnamoyltransferase

UniProt Synonym Protein Names

Hydroxycinnamoyl transferase; Hydroxycinnamoyl-Coenzyme A shikimate/quinate hydroxycinnamoyltransferase

UniProt Primary Accession

Q9FI78

UniProt Secondary Accession

Q8LFT5

UniProt Related Accession

Q9FI78

UniProt Comments

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mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1
mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Acyltransferase involved in the biosynthesis of lignin (PubMed:15161961, PubMed:26858288). Accepts caffeoyl-CoA and p-coumaroyl-CoA as substrates and transfers the acyl group on both shikimate and quinate acceptors (PubMed:15161961).

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