

## DCPS 抗原（重组蛋白）

中文名称：DCPS 抗原（重组蛋白）

英文名称：DCPS Antigen (Recombinant Protein)

别名：decapping enzyme, scavenger; ARS; DCS1; HSL1; HINT5; HINT-5; HSPC015

储存：冷冻（-20℃）

相关类别：抗原

概述

Fusion protein corresponding to a region derived from 2-337 amino acids of human DCPS

技术规格

<b>Full name:</b>	decapping enzyme, scavenger
<b>Synonyms:</b>	ARS; DCS1; HSL1; HINT5; HINT-5; HSPC015
<b>Swissprot:</b>	Q96C86
<b>Gene Accession:</b>	BC014532
<b>Purity:</b>	>85%, as determined by Coomassie blue stained SDS-PAGE
<b>Expression system:</b>	Escherichia coli
<b>Tags:</b>	His tag C-Terminus, GST tag N-Terminus
<b>Background:</b>	Decapping scavenger enzyme that catalyzes the cleavage of a residual cap structure following the degradation of mRNAs by the 3'->5' exosome-mediated mRNA decay pathway. Hydrolyzes cap analog structures like 7-methylguanosine nucleoside triphosphate (m7GpppG) with up to 10 nucleotide substrates (small capped oligoribonucleotides) and specifically releases 5'-phosphorylated RNA fragments and 7-methylguanosine monophosphate (m7GMP). Cleaves cap analog structures like tri-

methyl guanosine nucleoside triphosphate (m<sup>3</sup>(2,2,7)GpppG) with very poor efficiency. Does not hydrolyze unmethylated cap analog (GpppG) and shows no decapping activity on intact m<sup>7</sup>GpppG-capped mRNA molecules longer than 25 nucleotides. Does not hydrolyze 7-methylguanosine diphosphate (m<sup>7</sup>GDP) to m<sup>7</sup>GMP (PubMed:22985415). May also play a role in the 5'→3' mRNA decay pathway; m<sup>7</sup>GDP, the downstream product released by the 5'→3' mRNA mediated decapping activity, may be also converted by DCPS to m<sup>7</sup>GMP (PubMed:14523240). Binds to m<sup>7</sup>GpppG and strongly to m<sup>7</sup>GDP. Plays a role in first intron splicing of pre-mRNAs. Inhibits activation-induced cell death.