Creative Enzymes®

Recombinant E. coli MTA/SAH Nucleosidase

Cat. No. CEGZ-6426

Lot. No. (See product label)

Introduction

Description	A recombinant E. coli MTA/SAH nucleosidase that cleaves multiple sulfur-containing adenosine metabolites and selected purine ribonucleosides.
Applications	For research and in vitro hydrolysis of S-adenosylhomocysteine, 5-methylthioadenosine, 5-deoxyadenosine, and related substrates.
Synonyms	Ec-MtnN; MTAN; SAHN; Ec-YadA; 5-methyladenosine nucleosidase; S-methyl-5-thioadenosine/S-adenosyl-L-homocysteine nucleosidase; S-adenosylhomocysteine nucleosidase; AdoHcy/MTA nucleosidase

Product Information

Species	Escherichia coli
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 3.2.2.9
CAS No.	9055-10-1
Molecular Weight	25.8 kDa
Specificity	MTA, SAH/AdoHcy, 5-deoxyadenosine, selected thioadenosine and adenosylhomocysteine analogs, and purine ribonucleosides.
Substrates	S-adenosyl-L-homocysteine; 5-deoxyadenosine; S-methyl-5-thioadenosine; selected purine nucleosides
Reaction	S-adenosyl-L-homocysteine + H2O = S-(5-deoxy-D-ribos-5-yl)-L-homocysteine + adenine 5-deoxyadenosine + H2O = 5-deoxy-D-ribose + adenine S-methyl-5-thioadenosine + H2O = 5-(methylsulfanyl)-D-ribose + adenine Purine nucleoside + H2O = D-ribose + purine base
Notes	Mesophilic recombinant enzyme produced in E. coli and purified by His-tag affinity chromatography. Optimal reaction time and enzyme concentration may vary depending on the substrate.
Usage	Research and in vitro use only.

Storage and Shipping Information

Storage	-20°C