

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-ribose-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