Creative Enzymes®

chloramphenicol O-acetyltransferase

Cat. No. EXWM-2205

Lot. No. (See product label)

Introduction

Description	Chloramphenicol acetyltransferase (or CAT) is a bacterial enzyme (EC 2.3.1.28) that detoxifies the antibiotic chloramphenicol and is responsible for chloramphenicol resistance in bacteria. This enzyme covalently attaches an acetyl group from acetyl-CoA to chloramphenicol, which prevents chloramphenicol from binding to ribosomes. A histidine residue, located in the C-terminal section of the enzyme, plays a central role in its catalytic mechanism.
Synonyms	chloramphenicol acetyltransferase; chloramphenicol acetylase; chloramphenicol transacetylase; CAT I; CAT II; CAT III

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.28
CAS No.	9040-07-7
Reaction	acetyl-CoA + chloramphenicol = CoA + chloramphenicol 3-acetate
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.