

2,7-dihydroxy-5-methyl-1-naphthoate 7-O-methyltransferase

Cat. No. EXWM-1911

Lot. No. (See product label)

Introduction

Description

The enzyme from the bacterium *Streptomyces carzinostaticus* is involved in the biosynthesis of 2-hydroxy-7-methoxy-5-methyl-1-naphthoate. This compound is part of the enediyne chromophore of the antitumor antibiotic neocarzinostatin. In vivo the enzyme catalyses the regiospecific methylation at the 7-hydroxy group of its native substrate 2,7-dihydroxy-5-methyl-1-naphthoate. In vitro it also recognizes other dihydroxynaphthoic acids and catalyses their regiospecific O-methylation.

Synonyms

NcsB1; neocarzinostatin O-methyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.303

Reaction

S-adenosyl-L-methionine + 2,7-dihydroxy-5-methyl-1-naphthoate = S-adenosyl-L-homocysteine + 2-hydroxy-7-methoxy-5-methyl-1-naphthoate

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.