Creative Enzymes®

5-hydroxyfuranocoumarin 5-O-methyltransferase

Cat. No. EXWM-1970

Lot. No. (See product label)

Introduction

Description	Converts bergaptol into bergapten, which has therapeutic potential in the treatment of psoriasis as it has photosensitizing and antiproliferative activities. The enzyme methylates the 5-hydroxy group of some hydroxy- and methylcoumarins, such as 5-hydroxyxanthotoxin, but has little activity on non-coumarin phenols. Caffeate, 5-hydroxyferulate and daphnetin are not substrates. Cu2+, Zn2+ and Co2+ cause enzyme inhibition. (see also EC 2.1.1.70, 8-hydroxyfuranocoumarin 8-O-methyltransferase)
Synonyms	furanocoumarin 5-methyltransferase; furanocoumarin 5-O-methyltransferase; bergaptol 5-O-methyltransferase; bergaptol O-methyltransferase; bergaptol methyltransferase; S-adenosyl-L-methionine:bergaptol O-methyltransferase; BMT; S-adenosyl-L-methionine:5-hydroxyfuranocoumarin 5-O-methyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.1.69
CAS No.	67339-12-2, 101637-31-4
Reaction	(1) S-adenosyl-L-methionine + a 5-hydroxyfurocoumarin = S-adenosyl-L-homocysteine + a 5-methoxyfurocoumarin (general reaction); (2) S-adenosyl-L-methionine + bergaptol = S-adenosyl-L-homocysteine + bergapten
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 ℃.