

## 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-

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

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com