

tryptophan 2-C-methyltransferase

Cat. No. EXWM-1704

Lot. No. (See product label)

Introduction

Description

The enzyme, characterized from the bacterium *Streptomyces laurentii*, is involved in thiostrepton biosynthesis. It is a radical SAM enzyme that contains a [4Fe-4S] center and a cobalamin cofactor. The enzyme first transfers the methyl group from SAM to the bound cobalamin, followed by transfer from methylcobalamin to L-tryptophan, resulting in retention of the original methyl group configuration. The second transfer is likely to involve a CH₃ radical species formed from methylcobalamin by the concerted action of a partially ligated radical SAM [4Fe-4S]₂^{+/1+} center.

Synonyms

tsrM (gene name); tryptophan 2-methyltransferase; S-adenosylmethionine:tryptophan 2-methyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.106

CAS No.

126626-83-3

Reaction

S-adenosyl-L-methionine + L-tryptophan = S-adenosyl-L-homocysteine + L-2-methyltryptophan

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.