

spore photoproduct lyase

Cat. No. EXWM-4929

Lot. No. (See product label)

Introduction

Description

This enzyme is a member of the 'AdoMet radical' (radical SAM) family. The enzyme binds a [4Fe-4S] cluster. The cluster is coordinated by 3 cysteines and an exchangeable SAM molecule. The 5'-deoxy-adenosine radical formed after electron transfer from the [4Fe-4S] cluster to the S-adenosyl-L-methionine, initiates the repair by abstracting the C-6 hydrogen of the spore photoproduct lesion. During the second part of the repair process the SAM molecule is regenerated.

Synonyms

SAM; SP lyase; SPL; SplB; SplG

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.1.99.14

CAS No.

37290-70-3

Reaction

(5R)-5,6-dihydro-5-(thymidin-7-yl)thymidine (in double-helical DNA) = thymidyl-
(3'→5')-thymidylate (in double-helical DNA)

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.