

thymidylate synthase (FAD)

Cat. No. EXWM-1744

Lot. No. (See product label)

Introduction

Description Contains FAD. All thymidylate synthases catalyse a reductive methylation involving

the transfer of the methylene group of 5,10-methylenetetrahydrofolate to the C5 position of dUMP and a two electron reduction of the methylene group to a methyl group. Unlike the classical thymidylate synthase, ThyA (EC 2.1.1.45), which uses folate as both a 1-carbon donor and a source of reducing equivalents, this enzyme uses a flavin coenzyme as a source of reducing equivalents, which are derived from

1/1

NADPH.

Synonyms Thy1; ThyX

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.1.1.148

CAS No. 850167-13-4

Reaction 5,10-methylenetetrahydrofolate + dUMP + NADPH + H+ = dTMP +

tetrahydrofolate + NADP+

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 \sim -80 °C.

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