

13-deoxydaunorubicin hydroxylase

Cat. No. EXWM-0780

Lot. No. (See product label)

Introduction

Description The enzymes from the Gram-positive bacteria Streptomyces sp. C5 and

Streptomyces peucetius show broad substrate specificity for structures based on

an anthracycline aglycone, but have a strong preference for 4-methoxy

anthracycline intermediates (13-deoxydaunorubicin and 13-dihydrodaunorubicin)

over their 4-hydroxy analogues (13-deoxycarminomycin and 13-

dihydrocarminomycin), as well as a preference for substrates hydroxylated at the

C-13 rather than the C-14 position.

Synonyms DoxA

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.181

Reaction (1) 13-deoxydaunorubicin + NADPH + H+ + O2 = 13-dihydrodaunorubicin +

NADP+ + H2O; (2) 13-dihydrodaunorubicin + NADPH + H+ + O2 = daunorubicin +

1/1

NADP+ + 2 H2O

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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