

## 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<sup>+</sup> + O<sub>2</sub> = 13-dihydrodaunorubicin + NADP<sup>+</sup> + H<sub>2</sub>O; (2) 13-dihydrodaunorubicin + NADPH + H<sup>+</sup> + O<sub>2</sub> = daunorubicin + NADP<sup>+</sup> + 2 H<sub>2</sub>O

**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.