

## neoabietadiene synthase

Cat. No. EXWM-5146

Lot. No. (See product label)

### Introduction

**Description** Isolated from *Abies grandis* (grand fir). This class I enzyme forms about equal proportions of abietadiene, levopimaradiene and neoabietadiene. See also EC 4.2.3.18, abieta-7,13-diene synthase and EC 4.2.3.32, levopimaradiene synthase. An X-ray study of this multifunctional enzyme showed that the class I activity is in the  $\alpha$  domain, while (+)-copalyl diphosphate synthase activity (EC 5.5.1.12, a class II activity) is in the  $\beta$  and  $\gamma$  domains. In *Pinus taeda* (loblolly pine) the major product is levopimaradiene, with less abietadiene and neoabietadiene.

**Synonyms** AgAS; PtTPS-LAS

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.3.132

**Reaction** (+)-copalyl diphosphate = neoabietadiene + diphosphate

**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.