

tropinone reductase I

Cat. No. EXWM-0110

Lot. No. (See product label)

Introduction

Description

Also oxidizes other tropan-3 α -ols, but not the corresponding β -derivatives. This enzyme along with EC 1.1.1.236, tropinone reductase II, represents a branch point in tropane alkaloid metabolism. Tropine (the product of EC 1.1.1.206) is incorporated into hyoscyamine and scopolamine whereas pseudotropine (the product of EC 1.1.1.236) is the first specific metabolite on the pathway to the calystegines. Both enzymes are always found together in any given tropane-alkaloid-producing species, have a common substrate, tropinone, and are strictly stereospecific.

Synonyms

tropine dehydrogenase; tropinone reductase (ambiguous); TR-I

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.206

CAS No. 118390-87-7

Reaction tropine + NADP⁺ = tropinone + NADPH + H⁺

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.