

corticosterone 18-monooxygenase

Cat. No. EXWM-0948

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on paired donors, with O₂ as oxidant and incorporation or reduction of oxygen. The oxygen incorporated need not be derived from O₂ with reduced iron-sulfur protein as one donor, and incorporation of one atom of oxygen into the other donor. The systematic name of this enzyme class is corticosterone, reduced-adrenal-ferredoxin:oxygen oxidoreductase (18-hydroxylating). Other names in common use include corticosterone 18-hydroxylase, and corticosterone methyl oxidase. This enzyme participates in c21-steroid hormone metabolism.

Synonyms

corticosterone 18-hydroxylase; corticosterone methyl oxidase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.15.5

CAS No.

37256-75-0

Reaction

corticosterone + 2 reduced adrenodoxin + O₂ + 2 H⁺ = 18-hydroxycorticosterone + 2 oxidized adrenodoxin + 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

Storage

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