

uracil/thymine dehydrogenase

Cat. No. EXWM-1104

Lot. No. (See product label)

Introduction

Description

Forms part of the oxidative pyrimidine-degrading pathway in some microorganisms, along with EC 3.5.2.1 (barbiturase) and EC 3.5.1.95 (N-malonylurea hydrolase). Mammals, plants and other microorganisms utilize the reductive pathway, comprising EC 1.3.1.1 [dihydrouracil dehydrogenase (NAD⁺)] or EC 1.3.1.2 [dihydropyrimidine dehydrogenase (NADP⁺)], EC 3.5.2.2 (dihydropyrimidinase) and EC 3.5.1.6 (β-ureidopropionase), with the ultimate degradation products being an L-amino acid, NH₃ and CO₂.

Synonyms

uracil oxidase; uracil-thymine oxidase; uracil dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.17.99.4

CAS No.

9029-00-9

Reaction

(1) uracil + H₂O + acceptor = barbiturate + reduced acceptor; (2) thymine + H₂O + acceptor = 5-methylbarbiturate + reduced acceptor

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.