Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.