Creative Enzymes®

dihydroorotate dehydrogenase (fumarate)

Cat. No. EXWM-1417

Lot. No. (See product label)

Introduction

Description	Binds FMN. The reaction, which takes place in the cytosol, is the only redox reaction in the de novo biosynthesis of pyrimidine nucleotides. Molecular oxygen can replace fumarate in vitro. Other class 1 dihydroorotate dehydrogenases use either NAD+ (EC 1.3.1.14) or NADP+ (EC 1.3.1.15) as electron acceptor. The membrane bound class 2 dihydroorotate dehydrogenase (EC 1.3.5.2) uses quinone as electron acceptor.
Synonyms	DHOdehase (ambiguous); dihydroorotate dehydrogenase (ambiguous); dihydoorotic acid dehydrogenase (ambiguous); DHOD (ambiguous); DHODase (ambiguous); dihydroorotate oxidase, pyr4 (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.98.1
CAS No.	9029-03-2
Reaction	(S)-dihydroorotate + fumarate = orotate + succinate
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 ℃.