

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); dihydroorotic 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.