

dCTP deaminase (dUMP-forming)

Cat. No. EXWM-4558

Lot. No. (See product label)

Introduction

Description

Requires Mg²⁺. Is highly specific for dCTP as substrate as dCMP, CTP, CDP, CMP, cytosine or deoxycytosine are not deaminated. While most bacteria require two enzymes to form dUMP from dCTP (EC 3.5.4.13, dCTP deaminase and EC 3.6.1.23, dUTP diphosphatase), the archaeon *Methanocaldococcus jannaschii* uses a single enzyme to carry out both functions. This enzyme can also act as a dUTP diphosphatase, but more slowly.

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.5.4.30

Reaction $\text{dCTP} + 2 \text{H}_2\text{O} = \text{dUMP} + \text{diphosphate} + \text{NH}_3$

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.