Creative Enzymes®

methylenediurea deaminase

Cat. No. EXWM-4523

Lot. No. (See product label)

Introduction

Description	Methylenediurea is hydrolysed and decarboxylated to give an aminated methylurea, which then spontaneously hydrolyses to hydroxymethylurea. The enzyme from Ochrobactrum anthropi also hydrolyses dimethylenetriurea and trimethylenetetraurea as well as ureidoglycolate, which is hydrolysed to urea and glyoxylate, and allantoate, which is hydrolysed to ureidoglycolate, ammonia and carbon dioxide.
Synonyms	methylenediurease

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.5.3.21
CAS No.	205830-62-2
Reaction	methylenediurea + 2 H2O = N-(hydroxymethyl)urea + 2 NH3 + CO2 (overall reaction); (1a) methylenediurea + H2O = N-(carboxyaminomethyl)urea + NH3; (1b) N-(carboxyaminomethyl)urea = N-(aminomethyl)urea + CO2 (spontaneous); (1c) N-(aminomethyl)urea + H2O = N-(hydroxymethyl)urea + NH3 (spontaneous)
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 ℃.