

## 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)

1/1

**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.

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