

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-(carboxyaminoethyl)urea + NH₃; (1b) N-(carboxyaminoethyl)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 °C for short term. For long term storage, store it at -20 °C~-80 °C.