Creative Enzymes®

biuret amidohydrolase

Cat. No. EXWM-4475

Lot. No. (See product label)

Introduction

Description	Along with EC 3.5.2.15 (cyanuric acid amidohydrolase) and EC 3.5.1.54 (allophanate hydrolase), this enzyme forms part of thecyanuric-acid metabolism pathway, which degrades s-triazide herbicides, such as atrazine [2-chloro-4-(ethylamino)-6-(isopropylamino)-1,3,5-triazine], in bacteria.Urea-1-carboxylate rather than urea (as was thought previously) is the 2-nitrogen intermediate in cyanuric-acid metabolism in bacteria. The product, urea-1-carboxylate,can spontaneously decarboxylate under acidic conditions to form urea but, under physiological conditions, it can be converted into CO2 and ammonia by the action of EC 3.5.1.54.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.5.1.84
CAS No.	95567-88-7
Reaction	biuret + H2O = urea-1-carboxylate + NH3
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 ℃.