

## allophanate hydrolase

Cat. No. EXWM-4443

Lot. No. (See product label)

### Introduction

**Description** Along with EC 3.5.2.15 (cyanuric acid amidohydrolase) and EC 3.5.1.84 (biuret amidohydrolase), this enzyme forms part of the cyanuric-acid metabolism pathway, which degrades s-triazide herbicides, such as atrazine [2-chloro-4-(ethylamino)-6-(isopropylamino)-1,3,5-triazine], in bacteria. The yeast enzyme (but not that from green algae) also catalyses the reaction of EC 6.3.4.6, urea carboxylase, thus bringing about the hydrolysis of urea to CO<sub>2</sub> and NH<sub>3</sub> in the presence of ATP and bicarbonate. The enzyme from *Pseudomonas* sp. strain ADP has a narrow substrate specificity, being unable to use the structurally analogous compounds urea, hydroxyurea or methylcarbamate as substrate.

**Synonyms** allophanate lyase; AtzF; TrzF

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 3.5.1.54

**CAS No.** 9076-72-6

**Reaction** urea-1-carboxylate + H<sub>2</sub>O = 2 CO<sub>2</sub> + 2 NH<sub>3</sub>

**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.