

## bleomycin hydrolase

Cat. No. EXWM-4215

Lot. No. (See product label)

### Introduction

**Description** The molecule is a homohexamer in which the monomers have a papain-like tertiary structure (in peptidase family C1). The active sites are on the walls of a central channel through the molecule, and access of substrate molecules to them is obstructed by this and by the C-terminus of each polypeptide chain. Bleomycin can scarcely be the natural substrate, and there are reports of limited endopeptidase activity. Known from bacteria as well as eukaryotic organisms. Hydrolase H from chicken muscle has many similarities to bleomycin hydrolase, but hydrolyses Ph-CO-Arg-2-naphthylamine as well as aminopeptidase substrates.

**Synonyms** aminopeptidase C (Lactococcus lactis)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 3.4.22.40

**CAS No.** 53096-17-6

**Reaction** Inactivates bleomycin B2 (a cytotoxic glycometallopeptide) by hydrolysis of a carboxamide bond of  $\beta$ -aminoalanine, but also shows general aminopeptidase activity. The specificity varies somewhat with source, but amino acid arylamides of Met, Leu and Ala are preferred

**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.