

# rMatrilysin

## Matrilysin, recombinant from human

*Host cell : E. coli*

### Specification

#### Specific Activity

**Specifications**  
 $\geq 3,100$  units/mg  
 One unit is defined as an amount of enzyme which degrade  $1 \mu\text{g}$  of Azocoll per 1 min at  $37^\circ\text{C}$ , which is incubated in the solution of 1.82 mg/mL Azocoll, 50 mmol/L Tris-HCl (pH 7.5), 0.2 mol/L NaCl, 10 mmol/L  $\text{CaCl}_2$ , 0.02%  $\text{NaN}_3$ , 0.05% Brij 35<sup>®</sup>.

### Feature

Matrilysin is one of matrix metalloproteinase (MMP) and it degrades extracellular matrix protein (e.g. fibronectin, laminin, collagen, gelatin, elastin, entactin, proteoglycan)<sup>1)</sup>. Recombinant human matrilysin (rMMP-7) is produced by activation of recombinant pro human promatrilysin

(Research reagent use only, not for medical use.)

(rProMMP-7) by adding p-aminophenylmercuric acetate which is regenerated from *E. coli* inclusion body<sup>2)</sup>.

### Preparation

about 2 mg/mL (10 mmol/L HEPES buffer containing 0.15 mol/L NaCl and 5 mmol/L  $\text{CaCl}_2$ , pH 7.4)

### Storage

$-80^\circ\text{C}$   
 Prevent from freezing-thawing.

### OYC No./Package

OYC No.	Package
47218000	100 $\mu\text{g}$

### References

- 1) K. Miyazaki, et al., *Cancer Res.*, **50**, 7758-7764 (1990)
- 2) Y. Kihira, et al., *Urol. Oncol.*, **2**, 20-26 (1996)
- 3) J. F. Jr. Woessner, *Methods Enzymol.*, **248**, 485-495 (1995)

# rMb

## Myoglobin, recombinant from human

*Host cell : E. coli*

### Specification

#### Purity

**Specifications**  
 This product will indicate one band at the position about 17.5 k by SDS-polyacrylamide gel electrophoresis for  $1 \mu\text{g}$ .

#### Biological Activity

Absorption spectra of either reduced and oxidized<sup>2)</sup> form are same as those of natural form.

### Feature

Recombinant myoglobin (rMb) is prepared from *E. coli* extract by ion-exchange chromatography. rMb is a holoprotein that has a hem as natural form. In addition, its apoprotein part consists of 153 amino acids and it has the same amino acid sequence as the natural form<sup>1)</sup>.

(Research reagent use only, not for medical use.)

However, it contains immature form which has no removal of methionine (from initiation codon) from N terminal.

### Preparation

about 2 mg/mL (PBS containing 0.05%  $\text{NaN}_3$ , pH 7.4)

### Storage

$2\sim 10^\circ\text{C}$

### OYC No./Package

OYC No.	Package
47196000	1 mg
47197000	5 mg
47196900	Bulk

### References

- 1) A.E. Romero Herrera, et al., *Nature New Biol.*, **232**, 149-152 (1971)
- 2) A. Rossi-Fanelli, et al., *Arch. Biochem. Biophys.*, **72**, 243-246 (1957)

