

## caspase-1

Cat. No. EXWM-4211

Lot. No. (See product label)

### Introduction

#### Description

From mammalian monocytes. This enzyme is part of the family of inflammatory caspases, which also includes caspase-4 (EC 3.4.22.57) and caspase-5 (EC 3.4.22.58) in humans and caspase-11 (EC 3.4.22.64), caspase-12, caspase-13 and caspase-14 in mice. Contains a caspase-recruitment domain (CARD) in its N-terminal prodomain, which plays a role in procaspase activation. Cleaves pro-interleukin-1 $\beta$  (pro-IL-1 $\beta$ ) to form mature IL-1 $\beta$ , a potent mediator of inflammation. Also activates the proinflammatory cytokine, IL-18, which is also known as interferon- $\gamma$ -inducing factor. Inhibited by Ac-Tyr-Val-Ala-Asp-CHO. Caspase-11 plays a critical role in the activation of caspase-1 in mice, whereas caspase-4 enhances its activation in humans. Belongs in peptidase family C14.

#### Synonyms

interleukin 1 $\beta$ -converting enzyme; protease VII; protease A; interleukin 1 $\beta$  precursor proteinase; interleukin 1 converting enzyme; interleukin 1 $\beta$ -converting endopeptidase; interleukin-1 $\beta$  convertase; interleukin-1 $\beta$  converting enzyme; interleukin-1 $\beta$  precursor proteinase; prointerleukin 1 $\beta$  protease; precursor interleukin-1 $\beta$  converting enzyme; pro-interleukin 1 $\beta$  proteinase; ICE

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.4.22.36

#### CAS No.

122191-40-6

#### Reaction

Strict requirement for an Asp residue at position P1 and has a preferred cleavage sequence of Tyr-Val-Ala-Asp+

#### 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.