

## caspase-5

Cat. No. EXWM-4233

Lot. No. (See product label)

### Introduction

**Description** This enzyme is part of the family of inflammatory caspases, which also includes caspase-1 (EC 3.4.22.36) and caspase-4 (EC 3.4.22.57) 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. The enzyme is able to cleave itself and the p30 caspase-1 precursor, but is very inefficient at generating mature interleukin-1 $\beta$  (IL-1 $\beta$ ) from pro-IL-1 $\beta$ . Both this enzyme and caspase-4 can cleave pro-caspase-3 to release the small subunit (p12) but not the large subunit (p17). Unlike caspase-4, this enzyme can be induced by lipopolysaccharide. Belongs in peptidase family C14.

**Synonyms** ICERel-III; Ich-3; ICH-3 protease; transcript Y; TY; CASP-5

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 3.4.22.58

**CAS No.** 192465-11-5

**Reaction** Strict requirement for Asp at the P1 position. It has a preferred cleavage sequence of Tyr-Val-Ala-Asp $\downarrow$  but also cleaves at Asp-Glu-Val-Asp $\downarrow$

**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.