

caspase-4

Cat. No. EXWM-4232

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-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. The enzyme is able to cleave itself and the p30 caspase-1 precursor, but, unlike caspase-1, it is very inefficient at generating mature interleukin-1 β (IL-1 β) from pro-IL-1 β . Both this enzyme and caspase-5 can cleave pro-caspase-3 to release the small subunit (p12) but not the large subunit (p17). The caspase-1 inhibitor Ac-Tyr-Val-Ala-Asp-CHO can also inhibit this enzyme, but more slowly. Belongs in peptidase family C14.

Synonyms

ICERelIII; ICERel-II; Ich-2; transcript X; TX; TX protease; caspase 4; CASP-4

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.4.22.57

CAS No.

182762-08-9

Reaction

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