Creative Enzymes®

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-1β (IL-1β) from pro-IL-1β. 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┼ 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.