Creative Enzymes®

caspase-11

Cat. No. EXWM-4240

Lot. No. (See product label)

Introduction

Description	This murine enzyme is part of the family of inflammatory caspases, which also includes caspase-1 (EC 3.4.22.36), caspase-4 (EC 3.4.22.57) and caspase-5 (EC 3.4.22.58) in humans and 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. Like caspase-5, but unlike caspase-4, this enzyme can be induced by lipopolysaccharide. This enzyme not only activates caspase-1, which is required for the maturation of proinflammatory cytokines such as interleukin-1β (IL-1β) and IL-18, but it also activates caspase-3 (EC 3.4.22.56), which leads to cellular apoptosis under pathological conditions. Belongs in peptidase family C14.
Synonyms	CASP-11

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.22.64
Reaction	Strict requirement for Asp at the P1 position and has a preferred cleavage sequence of (Ile/Leu/Val/Phe)-Gly-His-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 ℃.