Creative Enzymes®

caspase-6

Cat. No. EXWM-4234

Lot. No. (See product label)

Introduction

Description	Caspase-6 is an effector/executioner caspase, as are caspase-3 (EC 3.4.22.56) and caspase-7 (EC 3.4.22.60). These caspases are responsible for the proteolysis of the majority of cellular polypeptides [e.g. poly(ADP-ribose) polymerase (PARP)], which leads to the apoptotic phenotype. Caspase-6 can cleave its prodomain to produce mature caspase-6, which directly activates caspase-8 (EC 3.4.22.61) and leads to the release of cytochrome c from the mitochondria. The release of cytochrome c is an essential component of the intrinsic apoptosis pathway. The enzyme can also cleave and inactivate lamins, the intermediate filament scaffold proteins of the nuclear envelope, leading to nuclear fragmentation in the final phases of apoptosis. Belongs in peptidase family C14.
Synonyms	CASP-6; apoptotic protease Mch-2; Mch2

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.22.59
CAS No.	182372-15-2
Reaction	Strict requirement for Asp at position P1 and has a preferred cleavage sequence of Val-Glu-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 ℃.