Creative Enzymes®

caspase-9

Cat. No. EXWM-4238

Lot. No. (See product label)

Introduction

Description	Caspase-9 is an initiator caspase, as are caspase -2 (EC 3.4.22.55), caspase-8 (EC 3.4.22.61) and caspase-10 (EC 3.4.22.63). Caspase-9 contains a caspase-recruitment domain (CARD) in its N-terminal prodomain, which plays a role in procaspase activation. An alternatively spliced version of caspase-9 also exists, caspase-9S, that inhibits apoptosis, similar to the situation found with caspase-2. Phosphorylation of caspase-9 from some species by Akt, a serine-threonine protein kinase, inhibits caspase activity in vitro and caspase activation in vivo. The activity of caspase-9 is increased dramatically upon association with the apoptosome but the enzyme can be activated without proteolytic cleavage. Procaspase-3 is the enzyme's physiological substrate. Belongs in peptidase family C14.
Synonyms	CASP-9; ICE-like apoptotic protease 6; ICE-LAP6; apoptotic protease Mch-6; apoptotic protease-activating factor 3; APAF-3

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.22.62
CAS No.	180189-96-2
Reaction	Strict requirement for an Asp residue at position P1 and with a marked preference for His at position P2. It has a preferred cleavage sequence of Leu-Gly-His-Asp┼Xaa
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 ℃.