Creative Enzymes®

oviductin

Cat. No. EXWM-4116

Lot. No. (See product label)

Introduction

Description	The egg envelope of the South African clawed frog (Xenopus laevis) is modified during transit of the egg through the pars rectus oviduct, changing the egg envelope from an unfertilizable form to a fertilizable form. This process involves the conversion of glycoprotein gp43 to gp41 (ZPC) by the pars recta protease oviductin. It is thought that the enzymically active protease molecule comprises the N-terminal protease domain coupled to two C-terminal CUB domains, which are related to the mammalian spermadhesin molecules implicated in mediating sperm-envelope interactions. The enzyme is also found in the Japanese toad (Bufo japonicus). Belongs in peptidase family S1.
Synonyms	oviductal protease

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.21.120
Reaction	Preferential cleavage at Gly-Ser-Arg373┼ of glycoprotein gp43 in Xenopus laevis coelemic egg envelope to yield gp41
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 ℃.