

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* coelomic 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.