Creative Enzymes®

F-actin monooxygenase

Cat. No. EXWM-0828

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the fruit fly Drosophila melanogaster, is a multi-domain oxidoreductase that acts as an F-actin disassembly factor. The enzyme selectively reduces two L-Met residues of F-actin, causing fragmentation of the filaments and preventing repolymerization. Free methionine is not a substrate. The reaction is stereospecific and generates the (R)-sulfoxide.
Synonyms	MICAL (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.225
Reaction	[F-actin]-L-methionine + NADPH + O2 + H+ = [F-actin]-L-methionine-(R)-S-oxide + NADP+ + H2O
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 ℃.