Creative Enzymes®

RING-type E3 ubiquitin transferase

Cat. No. EXWM-2301

Lot. No. (See product label)

Introduction

Description	The RING domain of E3 ubiquitin transferase serves as a mediator bringing the ubiquitin-charged E2 ubiquitin-conjugating enzyme and the acceptor protein together to enable the direct transfer of ubiquitin through the formation of an isopeptide bond between the C-terminal glycine residue of ubiquitin an the ε-amino group of an L-lysine residue of the acceptor protein. The RING-E3 domain does not form a catalytic thioester intermediate with ubiquitin (unlike the HECT domain, EC 2.3.2.26). RING-type ubiquitin transferases may occur as single-chain enzymes but also in dimeric forms or in multi-subunit assemblies.
Synonyms	RING E3 ligase (misleading); ubiquitin transferase RING E3

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.2.27
Reaction	S-ubiquitinyl-[E2 ubiquitin-conjugating enzyme]-L-cysteine + [acceptor protein]-L-lysine = [E2 ubiquitin-conjugating enzyme]-L-cysteine + N6-ubiquitinyl-[acceptor protein]-L-lysine
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 ℃.