HECT-type E3 ubiquitin transferase

Cat. No. EXWM-2300

Lot. No. (See product label)

Introduction

Description In the first step the enzyme transfers ubiquitin from the E2 ubiquitin-conjugating enzyme (EC 2.3.2.23) to a cysteine residue in its HECT domain (which is located in the C-terminal region), forming a thioester bond. In a subsequent step the enzyme transfers the ubiquitin to an acceptor protein, resulting in the formation of an isopeptide bond between the C-terminal glycine residue of ubiquitin and the ε-amino group of an L-lysine residue of the acceptor protein.

Synonyms HECT E3 ligase (misleading); ubiquitin transferase HECT-E3

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.3.2.26

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 (overall reaction); (1a) S-ubiquitinyl-[E2 ubiquitin-conjugating enzyme]-L-cysteine + [HECT-type E3 ubiquitin transferase]-L-cysteine = [E2 ubiquitin-conjugating enzyme]-L-cysteine + S-ubiquitinyl-[HECT-type E3 ubiquitin transferase]-L-cysteine; (1b) S-ubiquitinyl-[HECT-type E3 ubiquitin transferase]-L-cysteine + [acceptor protein]-L-lysine = [HECT-type E3 ubiquitin transferase]-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 ℃.