Creative Enzymes®

Native Mammalian Ubiquitin Conjugating Enzyme Fractions

Cat. No. NATE-0727

Lot. No. (See product label)

Introduction

Description	Ubiquitin-conjugating enzymes perform the second step in the ubiquitination reaction that targets a protein for degradation via the proteasome. The ubiquitination process covalently attaches ubiquitin, a short protein of 76 amino acids, to a lysine residue on the target protein. Once a protein has been tagged with one ubiquitin molecule, additional rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-dependent unfolding of the target protein that allows passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell.
Applications	Ubiquitin Conjugating Enzyme Fractions mammalian may be used in transferring the activated ubiquitin from E1 to the substrate through an additional high energy thiol ester intermediate E2-S-ubiquitin. Ubiquitin-conjugating enzymes, also known as E2 enzymes and more rarely as ubiquitin-carrier enzymes, perform the second step in the ubiquitination reaction that targets a protein for degradation via the proteasome.
Synonyms	Ubiquitin conjugating enzymes; Ubiquitin Conjugating Enzyme Fractions; E2 enzymes; ubiquitin-carrier enzymes

Product Information

Source	Mammalian

Storage and Shipping Information

Storage	−70°C