

## 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