

E1 ubiquitin-activating enzyme

Cat. No. EXWM-5704

Lot. No. (See product label)

Introduction

Description Catalyses the ATP-dependent activation of ubiquitin through the formation of a thioester bond between the C-terminal glycine of ubiquitin and the sulfhydryl side group of a cysteine residue in the E1 protein. The two-step reaction consists of the ATP-dependent formation of an E1-ubiquitin adenylate intermediate in which the C-terminal glycine of ubiquitin is bound to AMP via an acyl-phosphate linkage, then followed by the conversion to an E1-ubiquitin thioester bond via the cysteine residue on E1 in the second step.

Synonyms ubiquitin activating enzyme; E1; ubiquitin-activating enzyme E1

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.2.1.45

Reaction $\text{ATP} + \text{ubiquitin} + [\text{E1 ubiquitin-activating enzyme}]\text{-L-cysteine} = \text{AMP} + \text{diphosphate} + \text{S-ubiquitinyl-[E1 ubiquitin-activating enzyme]}\text{-L-cysteine}$

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.