Creative Enzymes®

prokaryotic ubiquitin-like protein ligase

Cat. No. EXWM-5721

Lot. No. (See product label)

Introduction

Description	The enzyme has been characterized from the bacteria Mycobacterium tuberculosis and Corynebacterium glutamicum. It catalyses the ligation of the prokaryotic ubiquitin-like protein (Pup) to a target protein by forming a bond between an ε-amino group of a lysine residue of the target protein and the γ-carboxylate of the C-terminal glutamate of the ubiquitin-like protein (Pup). The attachment of Pup, also known as Pupylation, marks proteins for proteasomal degradation.
Synonyms	PafA (ambiguous); Pup ligase; proteasome accessory factor A

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.1.19
Reaction	ATP + [prokaryotic ubiquitin-like protein]-L-glutamate + [protein]-L-lysine = ADP + phosphate + N6-([prokaryotic ubiquitin-like protein]-γ-L-glutamyl)-[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 ℃.