

## 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  $\epsilon$ -amino group of a lysine residue of the target protein and the  $\gamma$ -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**  $\text{ATP} + [\text{prokaryotic ubiquitin-like protein}]\text{-L-glutamate} + [\text{protein}]\text{-L-lysine} = \text{ADP} + \text{phosphate} + \text{N6-}([\text{prokaryotic ubiquitin-like protein}]\text{-}\gamma\text{-L-glutamyl})\text{-}[\text{protein}]\text{-L-lysine}$

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