

Pup amidohydrolase

Cat. No. EXWM-4399

Lot. No. (See product label)

Introduction

Description

The enzyme has been characterized from the bacterium *Mycobacterium tuberculosis*. It catalyses the hydrolysis of the amido group of the C-terminal glutamine of prokaryotic ubiquitin-like protein (Pup), thus activating it for ligation to target proteins, a process catalysed by EC 6.3.1.19, prokaryotic ubiquitin-like protein ligase. The reaction requires ATP as cofactor but not its hydrolysis. The enzyme also catalyses the hydrolytic cleavage of the bond formed by the ligase, between an ϵ -amino group of a lysine residue of the target protein and the γ -carboxylate of the C-terminal glutamate of the prokaryotic ubiquitin-like protein.

Synonyms

dop (gene name); Pup deamidase; depupylase/deamidase; DPUP; depupylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.5.1.119

Reaction

[prokaryotic ubiquitin-like protein]-L-glutamine + H₂O = [prokaryotic ubiquitin-like protein]-L-glutamate + NH₃

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.