Creative Enzymes®

protein-ribulosamine 3-kinase

Cat. No. EXWM-3003

Lot. No. (See product label)

Introduction

Description	This enzyme plays a role in freeing proteins from ribulosamines or psicosamines, which might arise from the reaction of amines with glucose and/or glycolytic intermediates. This role is shared by EC 2.7.1.171 (protein-fructosamine 3-kinase), which has, in addition, the unique capacity to phosphorylate fructosamines. The plant enzyme also phosphorylates [protein]-N6-D-erythrulosyl-L-lysine. No activity with [protein]-N6-D-fructosyl-L-lysine.
Synonyms	Fn3KRP; FN3K-related protein; FN3K-RP; ketosamine 3-kinase 2; fructosamine-3-kinase-related protein; ribulosamine/erythrulosamine 3-kinase; ribulosamine 3-kinase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.172
Reaction	ATP + [protein]-N6-D-ribulosyl-L-lysine = ADP + [protein]-N6-(3-O-phospho-D-ribulosyl)-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 ℃.