

## 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**  $\text{ATP} + [\text{protein}]\text{-N6-D-ribulosyl-L-lysine} = \text{ADP} + [\text{protein}]\text{-N6-(3-O-phospho-D-ribulosyl)-L-lysine}$

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