

protein-fructosamine 3-kinase

Cat. No. EXWM-3002

Lot. No. (See product label)

Introduction

Description

Non-enzymic glycation is an important factor in the pathogenesis of diabetic complications. Key early intermediates in this process are fructosamines, such as [protein]-N6-D-fructosyl-L-lysine. Fructosamine-3-kinase is part of an ATP-dependent system for removing carbohydrates from non-enzymically glycated proteins. The phosphorylation destabilizes the [protein]-N6-D-fructosyl-L-lysine adduct and leads to its spontaneous decomposition. cf. EC 2.7.1.172, protein-ribulosamine 3-kinase.

Synonyms

FN3K; fructosamine 3-kinase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.171

Reaction

ATP + [protein]-N6-D-fructosyl-L-lysine = ADP + [protein]-N6-(3-O-phospho-D-fructosyl)-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.