Creative Enzymes®

glucosamine-6-phosphate deaminase

Cat. No. EXWM-4589

Lot. No. (See product label)

Introduction

Description	The enzyme uses ring opening and isomerization of the aldose-ketose type to convert the -CH(-NH2)-CH=O group of glucosamine 6-phosphate into -C(=NH)-CH2-OH, forming 2-deoxy-2-imino-D-arabino-hexitol, which then hydrolyses to yield fructose 6-phosphate and ammonia. N-Acetyl-D-glucosamine 6-phosphate, which is not broken down, activates the enzyme.
Synonyms	glucosaminephosphate isomerase; glucosamine-6-phosphate isomerase; phosphoglucosaminisomerase; glucosamine phosphate deaminase; aminodeoxyglucosephosphate isomerase; phosphoglucosamine isomerase; 2-amino-2-deoxy-D-glucose-6-phosphate aminohydrolase (ketol isomerizing)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.5.99.6
CAS No.	9013-10-9
Reaction	α-D-glucosamine 6-phosphate + H2O = D-fructose 6-phosphate + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.