Creative Enzymes®

3-amino-4-hydroxybenzoate synthase

Cat. No. EXWM-4934

Lot. No. (See product label)

Introduction

Description	Requires Mn2+ for maximum activity. The reaction is suggested to take place in several steps. Schiff base formation, double bond migration and dephosphorylation followed by ring opening and closing to form a pyrrolidine ring, and finally dehydration to form the product 3-amino-4-hydroxybenzoate. In the bacterium Streptomyces griseus the enzyme is involved in biosynthesis of grixazone, a yellow pigment that contains a phenoxazinone chromophore.
Synonyms	3,4-AHBA synthase; griH (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.99.20
Reaction	2-amino-4,5-dihydroxy-6-oxo-7-(phosphooxy)heptanoate = 3-amino-4-hydroxybenzoate + phosphate + 2 H2O
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 ℃.