

tryptophanase

Cat. No. EXWM-4925

Lot. No. (See product label)

Introduction

Description A pyridoxal-phosphate protein, requiring K+. The enzyme cleaves a carbon-carbon bond, releasing indole

and an unstable enamine product that tautomerizes to an imine form, which undergoes a hydrolytic deamination to form pyruvate and ammonia. The latter reaction, which can occur spontaneously, can also be catalysed by EC 3.5.99.10, 2-iminobutanoate/2-iminopropanoate deaminase. Also catalyses 2,3-elimination and β -replacement reactions of some indole-substituted tryptophan analogues of L-cysteine,

L-serine and other 3-substituted amino acids.

Synonyms L-tryptophanase; L-tryptophan indole-lyase (deaminating); TNase

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.1.99.1

CAS No. 9024-00-4

Reaction L-tryptophan + H2O = indole + pyruvate + NH3 (overall reaction); (1a) L-tryptophan = indole + 2-

aminoprop-2-enoate; (1b) 2-aminoprop-2-enoate = 2-iminopropanoate (spontaneous); (1c) 2-

iminopropanoate + H2O = pyruvate + NH3 (spontaneous)

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 \sim -80 °C.

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