

tryptophan 5-monooxygenase

Cat. No. EXWM-0956

Lot. No. (See product label)

Introduction

Description The active centre contains mononuclear iron(II). The enzyme is activated by

phosphorylation, catalysed by a Ca2+-activated protein kinase. The 4a-

hydroxytetrahydrobiopterin formed can dehydrate to 6,7-dihydrobiopterin, both spontaneously and by the action of EC 4.2.1.96, 4a-hydroxytetrahydrobiopterin dehydratase. The 6,7-dihydrobiopterin can be enzymically reduced back to tetrahydrobiopterin, by EC 1.5.1.34 (6,7-dihydropteridine reductase), or slowly

rearranges into the more stable compound 7,8-dihydrobiopterin.

Synonyms L-tryptophan hydroxylase; indoleacetic acid-5-hydroxylase; tryptophan 5-

hydroxylase; tryptophan hydroxylase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.16.4

CAS No. 9037-21-2

Reaction L-tryptophan + tetrahydrobiopterin + O2 = 5-hydroxy-L-tryptophan + 4a-

hydroxytetrahydrobiopterin

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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