Creative Enzymes®

indolepyruvate ferredoxin oxidoreductase

Cat. No. EXWM-1231

Lot. No. (See product label)

Introduction

Description	Contains thiamine diphosphate and [4Fe-4S] clusters. Preferentially utilizes the transaminated forms of aromatic amino acids and can use phenylpyruvate and p-hydroxyphenylpyruvate as substrates. This enzyme, which is found in archaea, is a member of the 2-oxoacid oxidoreductases, a family of enzymes that oxidatively decarboxylate different 2-oxoacids to form their CoA derivatives, and are differentiated based on their substrate specificity. For examples of other members of this family, see EC 1.2.7.3, 2-oxoglutarate synthase and EC 1.2.7.7, 3-methyl-2-oxobutanoate dehydrogenase (ferredoxin).
Synonyms	3-(indol-3-yl)pyruvate synthase (ferredoxin); IOR

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.7.8
CAS No.	158886-06-7
Reaction	(indol-3-yl)pyruvate + CoA + 2 oxidized ferredoxin = S-2-(indol-3-yl)acetyl-CoA + CO2 + 2 reduced ferredoxin + H+
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 ℃.