Creative Enzymes®

(+)-abscisic acid 8'-hydroxylase

Cat. No. EXWM-0902

Lot. No. (See product label)

Introduction

Description	A heme-thiolate protein (P-450). Catalyses the first step in the oxidative degradation of abscisic acid and is considered to be the pivotal enzyme in controlling the rate of degradation of this plant hormone. CO inhibits the reaction, but its effects can be reversed by the presence of blue light. The 8'-hydroxyabscisate formed can be converted into (-)-phaseic acid, most probably spontaneously. Other enzymes involved in the abscisic-acid biosynthesis pathway are EC 1.1.1.288 (xanthoxin dehydrogenase), EC 1.2.3.14 (abscisic-aldehyde oxidase) and EC 1.13.11.51 (9-cis-epoxycarotenoid dioxygenase).
Synonyms	(+)-ABA 8'-hydroxylase; ABA 8'-hydroxylase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.93
CAS No.	153190-37-5
Reaction	(+)-abscisate + NADPH + H+ + O2 = 8'-hydroxyabscisate + NADP+ + 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 ℃.