

## 4'-methoxyisoflavone 2'-hydroxylase

Cat. No. EXWM-0860

Lot. No. (See product label)

### Introduction

#### Description

A heme-thiolate protein (P-450). Acts on isoflavones with a 4'-methoxy group, such as formononetin and biochanin A. Involved in the biosynthesis of the pterocarpin phytoalexins medicarpin and maackiain. EC 1.14.13.89, isoflavone 2'-hydroxylase, is less specific and acts on other isoflavones as well as 4'-methoxyisoflavones.

#### Synonyms

isoflavone 2'-monooxygenase (ambiguous); isoflavone 2'-hydroxylase (ambiguous)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.53

#### CAS No.

110183-49-8

#### Reaction

formononetin + NADPH + H<sup>+</sup> + O<sub>2</sub> = 2'-hydroxyformononetin + NADP<sup>+</sup> + H<sub>2</sub>O

#### 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~-80 °C.