

## arogenate dehydrogenase (NADP+)

Cat. No. EXWM-1347

Lot. No. (See product label)

### Introduction

#### Description

Arogenate dehydrogenases may utilize NAD<sup>+</sup> (EC 1.3.1.43), NADP<sup>+</sup> (EC 1.3.1.78), or both (EC 1.3.1.79). NADP<sup>+</sup>-dependent enzymes usually predominate in higher plants. The enzyme from the cyanobacterium *Synechocystis* sp. PCC 6803 and the TyrAAT1 isoform of the plant *Arabidopsis thaliana* cannot use prephenate as a substrate, while the *Arabidopsis* isoform TyrAAT2 can use it very poorly.

#### Synonyms

arogenic dehydrogenase (ambiguous); pretyrosine dehydrogenase (ambiguous); TyrAAT1; TyrAAT2; TyrAa

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.1.78

#### CAS No.

64295-75-6

#### Reaction

L-arogenate + NADP<sup>+</sup> = L-tyrosine + NADPH + CO<sub>2</sub>

#### 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.