

## pyruvate dehydrogenase (quinone)

Cat. No. EXWM-1220

Lot. No. (See product label)

### Introduction

#### Description

Flavoprotein (FAD). This bacterial enzyme is located on the inner surface of the cytoplasmic membrane and coupled to the respiratory chain via ubiquinone. Does not accept menaquinone. Activity is greatly enhanced by lipids. Requires thiamine diphosphate. The enzyme can also form acetoin.

#### Synonyms

pyruvate dehydrogenase; pyruvic dehydrogenase; pyruvic (cytochrome b1) dehydrogenase; pyruvate:ubiquinone-8-oxidoreductase; pyruvate oxidase (ambiguous); pyruvate dehydrogenase (cytochrome) (incorrect)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.2.5.1

#### Reaction

pyruvate + ubiquinone + H<sub>2</sub>O = acetate + CO<sub>2</sub> + ubiquinol

#### 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.