

## prostamide/prostaglandin F2 $\alpha$ synthase

Cat. No. EXWM-0502

Lot. No. (See product label)

### Introduction

#### Description

The enzyme contains a thioredoxin-type disulfide as a catalytic group. Prostamide H<sub>2</sub> and prostaglandin H<sub>2</sub> are the best substrates; the latter is converted to prostaglandin F<sub>2</sub> $\alpha$ . The enzyme also reduces tert-butyl hydroperoxide, cumene hydroperoxide and H<sub>2</sub>O<sub>2</sub>, but not prostaglandin D<sub>2</sub> or prostaglandin E<sub>2</sub>.

#### Synonyms

prostamide/PGF synthase; prostamide F synthase; prostamide/prostaglandin F synthase; tPGF synthase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.11.1.20

#### Reaction

thioredoxin + (5Z,9 $\alpha$ ,11 $\alpha$ ,13E,15S)-9,11-epidioxy-15-hydroxy-prosta-5,13-dienoate  
= thioredoxin disulfide + (5Z,9 $\alpha$ ,11 $\alpha$ ,13E,15S)-9,11,15-trihydroxyprosta-5,13-dienoate

#### 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.