

## (+)-pulegone reductase

Cat. No. EXWM-1350

Lot. No. (See product label)

### Introduction

**Description** NADH cannot replace NADPH as reductant. The  $\Delta 8,9$ -double bond of (+)-cis-isopulegone and the  $\Delta 1,2$ -double bond of ( $\pm$ )-piperitone are not substrates. The enzyme from peppermint (*Mentha x piperita*) converts (+)-pulegone into both (-)-menthone and (+)-isomenthone at a ratio of 70:30 for native enzyme but it does not catalyse the reverse reaction. This enzyme is a member of the medium-chain dehydrogenase/reductase superfamily.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.1.81

**Reaction** (1) (-)-menthone + NADP+ = (+)-pulegone + NADPH + H+; (2) (+)-isomenthone + NADP+ = (+)-pulegone + NADPH + H+

**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.