

(+)-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 (±)-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.