

## (R)-dichlorprop dioxygenase (2-oxoglutarate)

Cat. No. EXWM-0663

Lot. No. (See product label)

## Introduction

**Description** Fe2+-dependent enzyme. The enzymes from the Gram-negative bacteria Delftia

acidovorans MC1 and Sphingomonas herbicidovorans MH are involved in the degradation of the (R)-enantiomer of the phenoxyalkanoic acid herbicides

mecoprop and dichlorprop.

Synonyms RdpA; α-ketoglutarate-dependent (R)-dichlorprop dioxygenase; (R)-

phenoxypropionate/ $\alpha$ -ketoglutarate-dioxygenase; 2-oxoglutarate-dependent (R)-dichlorprop dioxygenase; (R)-mecoprop dioxygenase; 2-oxoglutarate-dependent

(R)-mecoprop dioxygenase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.11.44

**Reaction** (1) (R)-2-(4-chloro-2-methylphenoxy)propanoate + 2-oxoglutarate + O2 = 4-chloro-

2-methylphenol + pyruvate + succinate + CO2; (2) (R)-(2,4-

dichlorophenoxy)propanoate + 2-oxoglutarate + O2 = 2,4-dichlorophenol +

1/1

pyruvate + succinate + CO2

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com