

(S)-dichlorprop dioxygenase (2-oxoglutarate)

Cat. No. EXWM-0662

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 (S)-enantiomer of the phenoxyalkanoic acid herbicides

mecoprop and dichlorprop.

Synonyms SdpA; α-ketoglutarate-dependent (S)-dichlorprop dioxygenase; (S)-

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

(S)-mecoprop dioxygenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.11.43

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

2-methylphenol + pyruvate + succinate + CO2; (2) (S)-(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

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

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