Creative Enzymes®

2-haloacid dehalogenase (configuration-inverting)

Cat. No. EXWM-4740

Lot. No. (See product label)

Introduction

Description	Dehalogenates both (S)- and (R)-2-haloalkanoic acids to the corresponding (R)- and (S)-hydroxyalkanoic acids, respectively, with inversion of configuration at C-2. The enzyme from Pseudomonas sp. 113 acts on 2-haloalkanoic acids whose carbon chain lengths are five or less. [See also EC 3.8.1.2 (S)-2-haloacid dehalogenase, EC 3.8.1.9 (R)-2-haloacid dehalogenase and EC 3.8.1.11 2-haloacid dehalogenase (configuration-retaining)]
Synonyms	2-haloalkanoic acid dehalogenase; 2-haloalkanoid acid halidohydrolase; DL-2-haloacid dehalogenase; DL-2-haloacid dehalogenase (inversion of configuration); DL-2-haloacid halidohydrolase (inversion of configuration); DL-DEXi; (R,S)-2-haloacid dehalogenase (configuration-inverting)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.8.1.10
Reaction	(1) (S)-2-haloacid + H2O = (R)-2-hydroxyacid + halide; (2) (R)-2-haloacid + H2O = (S)-2-hydroxyacid + halide
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.