Creative Enzymes®

pyrethroid hydrolase

Cat. No. EXWM-3517

Lot. No. (See product label)

Introduction

Description	The enzyme is involved in degradation of pyrethroid pesticides. The enzymes from Sphingobium sp., Klebsiella sp. and Aspergillus niger hydrolyse cis-permethrin at approximately equal rate to trans-permethrin. The enzyme from mouse hydrolyses trans-permethrin at a rate about 22-fold higher than cis-permethrin.
Synonyms	pyrethroid-hydrolyzing carboxylesterase; pyrethroid-hydrolysing esterase; pyrethroid-hydrolyzing esterase; pyrethroid-selective esterase; pyrethroid-cleaving enzyme; permethrinase; PytH; EstP

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.1.88
Reaction	trans-permethrin + H2O = (3-phenoxyphenyl)methanol + (1S,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
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 ℃.