Creative Enzymes®

(R)-specific secondary-alkylsulfatase

Cat. No. EXWM-3752

Lot. No. (See product label)

Introduction

Description	The enzyme from Rhodococcus ruber is involved in the biodegradation of alkyl sulfate esters used as detergents and released into the environment. The prefered substrates are linear secondary-alkyl sulfate esters, particularly octan-2-yl, octan-3-yl, and octan-4-yl sulfates. The enzyme from Pseudomonas sp. DSM6611 utilizes a range of secondary-alkyl sulfate esters bearing aromatic, olefinic and acetylenic moieties. Perfect enantioselectivities are obtained for substrates bearing groups of different size adjacent to the sulfate moiety. The enzymic hydrolysis proceeds through inversion of the configuration at the stereogenic carbon atom. The enzyme contains a Zn2+ ion.
Synonyms	S3 secondary alkylsulphohydrolase; Pisa1; secondary alkylsulphohydrolase; (R)-specific sec-alkylsulfatase; sec-alkylsulfatase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.6.19
Reaction	an (R)-secondary-alkyl sulfate + H2O = an (S)-secondary-alcohol + sulfate
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 ℃.