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 ℃.