Creative Enzymes®

# bile-salt sulfotransferase

*Cat. No. EXWM-3372*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | The formation of sulfate esters of bile acids is an essential step in the prevention of toxicity by monohydroxy bile acids in many species. This enzyme is both a bile salt and a 3-hydroxysteroid sulfotransferase. In addition to the 5β-bile acid glycolithocholate, deoxycholate, 3β-hydroxy-5-cholenoate and dehydroepiandrosterone (3β-hydroxyandrost-5-en-17-one) also act as substrates [see also EC 2.8.2.2 (alcohol sulfotransferase) and EC 2.8.2.34 (glycochenodeoxycholate sulfotransferase)]. May be identical to EC 2.8.2.2. |
| ***Synonyms*** | BAST I; bile acid:3'-phosphoadenosine-5'-phosphosulfate sulfotransferase; bile salt:3'phosphoadenosine-5'-phosphosulfate:sulfotransferase; bile acid sulfotransferase I; glycolithocholate sulfotransferase |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 2.8.2.14 |
| ***CAS No.*** | 65802-92-8 |
| ***Reaction*** | (1) 3'-phosphoadenylyl sulfate + glycolithocholate = adenosine 3',5'-bisphosphate + glycolithocholate 3-sulfate; (2) 3'-phosphoadenylyl sulfate + taurolithocholate = adenosine 3',5'-bisphosphate + taurolithocholate 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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |