Creative Enzymes®

aryl-sulfate sulfotransferase

Cat. No. EXWM-3381

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from bacteria that colonize the human and mouse intestine, catalyses the transfer of a sulfate group from a phenol sulfate ester to other phenolic compounds. Activity is enhanced by Mg2+ and Mn2+. Unlike EC 2.8.2.9, tyrosine-ester sulfotransferase and EC 2.8.2.1, aryl sulfotransferase, the enzyme does not act on 3'-phosphoadenylyl sulfate or adenosine 3',5'-bisphosphate.The level of sulfation of polyphenols depends on the positions of the hydroxyl groups. Hydroxy groups of tyrosine residues in peptides such as angiotensin can also act as acceptors. The reaction proceeds according to a ping pong bi bi mechanism.
Synonyms	arylsulfate-phenol sulfotransferase; arylsulfotransferase; ASST; arylsulfate sulfotransferase; arylsulfate:phenol sulfotransferase; astA (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.8.2.22
CAS No.	158254-86-5
Reaction	an aryl sulfate + a phenol = a phenol + an aryl 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 ℃.