

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.