

alkanesulfonate monooxygenase

Cat. No. EXWM-0931

Lot. No. (See product label)

Introduction

Description

The enzyme from Escherichia coli catalyses the desulfonation of a wide range of aliphatic sulfonates (unsubstituted C1- to C14-sulfonates as well as substituted C2-sulfonates). Does not desulfonate taurine (2-aminoethanesulfonate) or aromatic sulfonates. Does not use FMN as a bound cofactor. Instead, it uses reduced FMN (i.e., FMNH₂) as a substrate. FMNH₂ is provided by SsuE, the associated FMN reductase (EC 1.5.1.38).

Synonyms

SsuD; sulfate starvation-induced protein 6; alkanesulfonate, reduced-FMN: oxygen oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.14.5

CAS No.

256383-67-2

Reaction

an alkanesulfonate + FMNH₂ + O₂ = an aldehyde + FMN + sulfite + H₂O

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.