

## 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., FMNH<sub>2</sub>) as a substrate. FMNH<sub>2</sub> 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 + FMNH<sub>2</sub> + O<sub>2</sub> = an aldehyde + FMN + sulfite + H<sub>2</sub>O

#### 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.