Creative Enzymes®

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