

2-aminobenzenesulfonate 2,3-dioxygenase

Cat. No. EXWM-0683

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on paired donors, with O₂ as oxidant and incorporation or reduction of oxygen. The oxygen incorporated need not be derived from O₂ with NADH or NADPH as one donor, and incorporation of two atoms of oxygen into the other donor. The systematic name of this enzyme class is 2-aminobenzenesulfonate:NADH: oxygen oxidoreductase (2,3-hydroxylating, ammonia-forming). This enzyme is also called 2-aminosulfobenzene 2,3-dioxygenase. This enzyme participates in benzoate degradation via hydroxylation.

Synonyms

2-aminosulfobenzene 2,3-dioxygenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.12.14

CAS No. 156621-16-8

Reaction 2-aminobenzenesulfonate + NADH + H⁺ + O₂ = 2,3-dihydroxybenzenesulfonate + NH₃ + NAD⁺

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.