Creative Enzymes®

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