Creative Enzymes®

aconitate hydratase

Cat. No. EXWM-5020

Lot. No. (See product label)

Introduction

Description	Besides interconverting citrate and cis-aconitate, it also interconverts cis-aconitate with isocitrate and, hence, interconverts citrate and isocitrate. The equilibrium mixture is 91% citrate, 6% isocitrate and 3% aconitate. cis-Aconitate is used to designate the isomer (Z)-prop-1-ene-1,2,3-tricarboxylate. An iron-sulfur protein, containing a [4Fe-4S] cluster to which the substrate binds.
Synonyms	cis-aconitase; aconitase; AcnB; 2-methylaconitate hydratase; citrate(isocitrate) hydro-lyase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.3
CAS No.	9024-25-3
Reaction	citrate = isocitrate (overall reaction); (1a) citrate = cis-aconitate + H2O; (1b) cis-aconitate + H2O = isocitrate
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 ℃.