Creative Enzymes®

Xanthine Oxidase from Arthrobacter sp.

Cat. No. NATE-1719

Lot. No. (See product label)

Introduction

Description	Xanthine oxidase is a form of xanthine oxidoreductase, a type of enzyme that generates reactive oxygen species. These enzymes catalyze the oxidation of hypoxanthine to xanthine and can further catalyze the oxidation of xanthine to uric acid. These enzymes play an important role in the catabolism of purines in some species, including humans.
Synonyms	EC 1.17.3.2; Xanthine oxidase; XO; XAO

Product Information

Source	Arthrobacter sp.
Form	Reddish brown amorphous powder, lyophilized
EC Number	EC 1.17.3.2
CAS No.	9002-17-9
Molecular Weight	160 kDa (gel)
Activity	>50U/mg protein
Isoelectric point	4
pH Stability	6.0~9.5(30℃,16hr)
Optimum pH	7.0~ 7.5
Thermal stability	< 55℃ (pH 7.5, 20min)
Optimum temperature	55℃
Michaelis Constant	1.4×10^-4 M (Xanthine)
Inhibitors	Ag+, Hg2+
Unit Definition	One unit will convert one micromole of Xanthine to Uric acid per min at pH 7.5 at 37℃.
Notes	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Storage and Shipping Information

Storage	Store at -20°C.