

Xanthine Oxidase from *Arthrobacter* sp.

Product Information

Cat#	NATE-1719
Abbr	XOD (<i>Arthrobacter</i> sp.)
Similar	XAO
Source	<i>Arthrobacter</i> sp.
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.
Form	Reddish brown amorphous powder, lyophilized
Enzyme Commission Number	EC 1.17.3.2
Activity	>50U/mg protein
CAS No.	9002-17-9
Molecular Weight	160 kDa (gel)
Isoelectric point	4
pH Stability	6.0~9.5(30°C, 16hr)
Michaelis Constant	1.4×10^{-4} M (Xanthine)
Unit Definition	One unit will convert one micromole of Xanthine to Uric acid per min at pH 7.5 at 37°C.
Optimum pH	7.0~ 7.5
Optimum temperature	55°C
Thermal stability	< 55°C (pH 7.5, 20min)



Creative Enzymes

Diagnostic Enzymes

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Storage	Store at -20°C.
Inhibitors	Ag ⁺ , Hg ²⁺
Synonyms	EC 1.17.3.2; Xanthine oxidase; XO; XAO