

## Xanthine Oxidase from *Arthrobacter* sp.

### Product Information

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

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