

## Native Cholesterol Oxidase (CO) from Microorganism

### Product Information

<b>Cat#</b>	BDE-021
<b>Specification</b>	2 KU, 10 KU, 500 KU, 1000 KU
<b>Description</b>	Cholesterol Oxidase (CO) catalyzes the oxidation of cholesterol to produce hydrogen peroxide and is a core enzyme in lipid profile testing.
<b>Applications</b>	Core enzyme for total cholesterol and high-density lipoprotein (HDL) cholesterol assay kits.
<b>Enzyme Commission Number</b>	EC 1.1.3.6
<b>Form</b>	Yellow amorphous lyophilized powder
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 8 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to catalyze the production of 1 μmol of H <sub>2</sub> O <sub>2</sub> per minute under specified assay conditions.
<b>Molecular Weight</b>	60 kDa (SDS-PAGE)
<b>Purity</b>	≥ 90% by SDS-PAGE
<b>Optimum pH</b>	7.0
<b>Optimum temperature</b>	50°C
<b>pH Stability</b>	5.5-10 (25°C, 16 h)
<b>Thermal Stability</b>	< 40°C (pH 7.0, 30 min)
<b>Isoelectric Point</b>	5.6
<b>Km Value</b>	3.3×10 <sup>-4</sup> M (Cholesterol)
<b>Inhibitors</b>	SDS, Ag <sup>+</sup> , Zn <sup>2+</sup> , Hg <sup>2+</sup>



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## **Native Cholesterol Oxidase (CO) from Microorganism**

<b>Protectant</b>	BSA and nonionic surfactants
<b>Storage</b>	Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

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