

## Recombinant Acyl-CoA Oxidase (ACO)

### Product Information

<b>Cat#</b>	BDE-004
<b>Description</b>	In the detection of non-esterified fatty acid (NEFA), the second enzymatic step employs acyl-CoA oxidase (ACO), which oxidizes acyl-CoA to 2,3-Trans-acyl-CoA and hydrogen peroxide. The latter is quantified by peroxidase and is used to measure non-esterified fatty acids.
<b>Applications</b>	Oxidizes acyl-CoA to produce hydrogen peroxide, used for the quantitative analysis of indicators related to fatty acid metabolism.
<b>CAS No.</b>	61116-22-1
<b>Enzyme Commission Number</b>	EC 1.3.3.6
<b>Form</b>	White powder, lyophilized
<b>Source</b>	Recombinant
<b>Activity</b>	≥ 30 U/mg-protein
<b>Unit Definition</b>	One unit will convert one micromole of Acyl-CoA to trans-2, 3-dehydroacyl-CoA per min at pH 7.5 at 37°C.
<b>Molecular Weight</b>	77 kDa (SDS-PAGE)
<b>Optimum pH</b>	8.5
<b>Optimum temperature</b>	37-40°C
<b>pH Stability</b>	6.0-8.5 (25°C, 15 h)
<b>Thermal Stability</b>	< 45°C (pH 7.5, 15 min)
<b>Inhibitors</b>	Ag <sup>+</sup> , Hg <sup>2+</sup> , Zn <sup>2+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup>
<b>Storage</b>	Store at ≤ -20 °C.