

## acyloxyacyl hydrolase

Cat. No. EXWM-3505

Lot. No. (See product label)

### Introduction

**Description** The substrate is lipid A on the reducing end of the toxic lipopolysaccharide (LPS) of *Salmonella typhimurium* and related organisms. It consists of diglucosamine,  $\beta$ -D-GlcN-(1 $\rightarrow$ 6)-D-GlcN, attached by glycosylation on O-6 of its non-reducing residue, phosphorylated on O-4 of this residue and on O-1 of its potentially reducing residue. Both residues carry 3-(acyloxy)acyl groups on N-2 and O-3. The enzyme from human leucocytes detoxifies the lipid by hydrolysing the secondary acyl groups from O-3 of the 3-hydroxyacyl groups on the disaccharide (LPS). It also possesses a wide range of phospholipase and acyltransferase activities [e.g. EC 3.1.1.4 (phospholipase A2), EC 3.1.1.5 (lysophospholipase), EC 3.1.1.32 (phospholipase A1) and EC 3.1.1.52 (phosphatidylinositol deacylase)], hydrolysing diacylglycerol and phosphatidyl compounds, but not triacylglycerols. It has a preference for saturated C12-C16 acyl groups.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 3.1.1.77

**CAS No.** 110277-64-0

**Reaction** 3-(acyloxy)acyl group of bacterial toxin + H<sub>2</sub>O = 3-hydroxyacyl group of bacterial toxin + a fatty acid

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.