

Recombinant Human 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, β -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

Species	Human
Source	E.coli
Form	Liquid or Lyophilized powder
EC Number	EC 3.1.1.77
CAS No.	110277-64-0
Molecular Weight	62.4 kDa
Purity	Greater than 90% as determined by SDS-PAGE.
Activity	Not detected
Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Reaction	3-(acyloxy)acyl group of bacterial toxin + H ₂ 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 at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
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