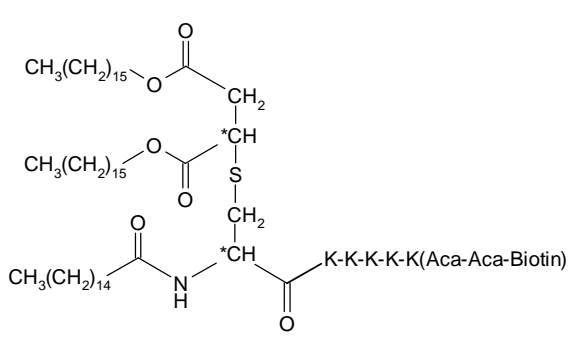


# Product Information

## Lipobiotin

For Research Purposes only. Not for use in Humans



<b>Product</b>	L2070
<b>Chemical name</b>	S-(1,2-dicarboxyhexadecyl)ethyl-N-palmitoyl-( <i>R</i> )-cysteiny-( <i>S</i> )-lysyl-( <i>S</i> )-lysyl-( <i>S</i> )-lysyl-( <i>S</i> )-lysyl-( <i>S</i> )-lysine(biotinyl- $\epsilon$ -aminocaproyl- $\epsilon$ -aminocaproic acid) x 2 CF <sub>3</sub> COOH
<b>Synonyms</b>	PHC-KKKKK(Biotin-Aca-Aca) PHC-(Lys) <sub>4</sub> -Lys(Biotin-Aca-Aca) x 2 TFA
<b>CAS</b>	Not available
<b>MW / Formula</b>	2018 • 228,1 / C <sub>107</sub> H <sub>201</sub> N <sub>15</sub> O <sub>16</sub> S <sub>2</sub>
<b>Description</b>	 <p>Lipobiotin is a selectively biotinylated analogue of PHC-SKKKK (product code L2032). Biotin is attached via spacer molecules to the side chain of the C-terminal lysine. The Biotin-avidin or -streptavidin interaction can be used for detection, labelling or immobilisation in many research applications. Lipobiotin is no ligand of TLR.</p> <p>Lipobiotin was used in a novel, rapid and versatile method for the isolation of pathogen-containing organelles from primary cells. The compound was used to functionalize bacterial surfaces and allows the rapid immunomagnetic isolation of intact bacteria-containing compartments and apoptotic blebs which can be characterized by electron microscopy, western blot and mass spectrometry [1, 2]. The procedure facilitates the detailed molecular characterization of pathogen-containing phagosomes in low total cell number of macrophages and other host cells [1].</p>
<b>Packaging Reconstitution Storage</b>	<p>The lipobiotin is provided as a lyophilised, colourless powder without any additives. It can be shipped at room temperature and should be stored at 4°C.</p> <p>Lipobiotin can be reconstituted in endotoxin-free water (1 mg/ml stock solution). Through the use of either a homogeniser or sonicator, a homogenous solution or emulsion can be prepared. If you use an ultrasonic bath, take care of the vial labels.</p> <p>For further dilutions water, saline, buffer (pH ≤ 7.4) or media can be used.</p> <p>After reconstitution, the solution should be aliquoted and stored at or below -20°C. Repeated thawing and freezing should be avoided.</p>
<b>Product citations</b>	<p>[1] C. Steinhäuser, U. Heigl, V. Tchikov, J. Schwarz, T. Gutschmann, K. Seeger, J. Brandenburg, J. Fritsch, J. Schroeder, K.-H. Wiesmüller, I. Rosenkrands, P. Walther, J. Pott, E. Krause, S. Ehlers, W. Schneider-Brachert, S. Schütze, N. Reiling (2013) Lipid-labeling facilitates a novel magnetic isolation procedure to characterize pathogen-containing phagosomes. <i>Traffic</i> 14(3), 321-336. doi: 10.1111/tra.12031.</p> <p>[2] C. Steinhäuser, T. Dallenga, V. Tchikov, U. E. Schaible, S. Schütze, N. Reiling (2014) Immuno-magnetic isolation of pathogen-containing phagosomes and apoptotic blebs from primary phagocytes. <i>Curr. Protoc. Immunol.</i>, In press</p>