Degradation of the germ cell glycolipid, sulfogalactosylalkylacylglycerolipid, by Mycoplasma pulmonis, a rodent mycoplasma causing infertility

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Description: -
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Tags: #Glycolipid

Male germ cell specific sulfogalactoglycerolipid is recognized and degraded by mycoplasmas associated with male infertility

The anomeric carbon of the sugar binds to a free on the lipid backbone. Rat spermatozoa exposed to M. Fundamentals of Biochemistry Life at the Molecular Level Fourth ed.

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The lipid and the saccharide form a through a , which is a. Their role is to maintain the stability of the and to facilitate recognition, which is crucial to the immune response and in the connections that allow cells to connect to one another to form. The reduced binding and subsequent digestion of caput spermatozoan SGG correlates with the membrane colocalization of SGG and its endogenous binding protein at this stage.

Glycolipid

Sphingolipidoses are typically inherited, and their effects depend on which enzyme is affected, and the degree of impairment. Biochimica et Biophysica Acta BBA - Molecular and Cell Biology of Lipids. Based on this novel genetic relationship it is not far fetched to assume that there must be a strong correlation between the synthesis of the glycolipid precursor and the glycolipid transfer protein.

Glycolipid transfer proteins and membrane interaction

The interaction of these cell surface markers is the basis of cell recognitions, and initiates cellular responses that contribute to activities such as regulation, growth, and apoptosis.

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Because the glycolipid transfer protein is localized in the cytosol it is unlikely that it would participate in events associated with lipid rafts or caveolar structures, since they are found on the outer leaflet of the plasma membrane. .

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