

## Accepted Manuscript

Title: Click Chemistry in Sphingolipid Research

Authors: Eduardo Izquierdo, Antonio Delgado

PII: S0009-3084(18)30055-0

DOI: <https://doi.org/10.1016/j.chemphyslip.2018.07.004>

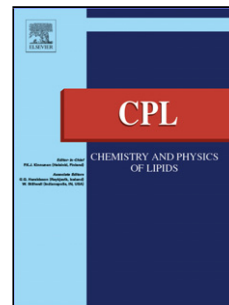
Reference: CPL 4669

To appear in: *Chemistry and Physics of Lipids*

Received date: 27-3-2018

Revised date: 13-7-2018

Accepted date: 16-7-2018



Please cite this article as: Izquierdo E, Delgado A, Click Chemistry in Sphingolipid Research, *Chemistry and Physics of Lipids* (2018), <https://doi.org/10.1016/j.chemphyslip.2018.07.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Click Chemistry in Sphingolipid Research

Eduardo Izquierdo<sup>a,b</sup> and Antonio Delgado<sup>a,b\*</sup>

<sup>a</sup> Spanish National Research Council (CSIC), Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Department of Biomedical Chemistry, Research Unit on Bioactive Molecules (RUBAM), Jordi Girona 18-26, 08034 Barcelona, Spain.

<sup>b</sup> University of Barcelona (UB), Faculty of Pharmacy and Food Sciences, Department of Pharmacology, Toxicology and Medicinal Chemistry, Unit of Pharmaceutical Chemistry (Associated Unit to CSIC), Avda. Joan XXIII 27-31, 08028 Barcelona, Spain.

### Highlights

- Click chemistry represents a valuable contribution to the current toolbox in chemical biology.
- A large variety of tagged sphingolipids can be generated intracellularly using *in situ* click chemistry.
- Proteome analysis and intracellular organelle visualization can benefit from modified sphingolipids resulting from click chemistry.
- Click chemistry is also useful to design sphingolipid analogues with improved pharmacological properties.

### Index

1. Introduction .....	3
2 Sphingolipid probes for <i>in situ</i> click chemistry .....	6
2.1. Labelled sphingoid bases.....	6
2.2 Labelled ceramides.....	10
2.3. Labelled sphingomyelins and complex sphingolipids.....	15

Download English Version:

<https://daneshyari.com/en/article/7692038>

Download Persian Version:

<https://daneshyari.com/article/7692038>

[Daneshyari.com](https://daneshyari.com)