



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

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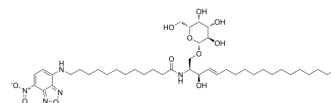
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## C12 NBD Galactosylceramide

Cat. No.:	HY-145493
CAS No.:	474942-98-8
Molecular Formula:	C <sub>42</sub> H <sub>71</sub> N <sub>5</sub> O <sub>11</sub>
Molecular Weight:	822.04
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	C12 NBD galactosylceramide, fluorescent dye, is a biologically active derivative of galactosylceramide that is tagged with a fluorescent C12 nitrobenzoxadiazole (C12 NBD) group. C12 NBD galactosylceramide can be used for the research of imaging [1].
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>To determine whether ACDase could directly cleave galactosylceramide, incorporated the labeled galactose into galactosylceramide, which was then converted to psychosine by ACDase<sup>[1]</sup>:</p> <ol style="list-style-type: none"><li>20 μmol of C12-NBD-galactosylceramide were incubated with 5 to 10 μg of purified acid ceramidase in a 30 μL reaction containing 15 μL of 0.2 M citrate phosphate buffer (pH 4.5), 2.25 μL of 2 M NaCl, 1.5 μL of 10 mg/mL bovine serum albumin (BSA), and 0.3 μL of 10% IGEPAL CA630.</li><li>Incubated at 37°C for 18 h without agitation and then stopped by adding 60 μL of acidified methanol.</li><li>The amount of psychosine formed by the deacylase activity of the enzyme was determined by monitoring the release of NBD-fatty acid on an Acquity UPLC (excitation, 435 nm; emission, 525 nm).</li><li>26 μmol of C12-NBD-galactosylceramides is incubated at 37°C with 1.0 μg of enzyme for 3 h or 24 h. Detected minute levels of psychosine to compare the efficiency of ACDase substrates.</li></ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Tomomi Sumida, et al. Molecular cloning and characterization of a novel glucocerebrosidase of Paenibacillus sp. TS12. J Biochem. 2002 Aug;132(2):237-43.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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