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Zuschläge

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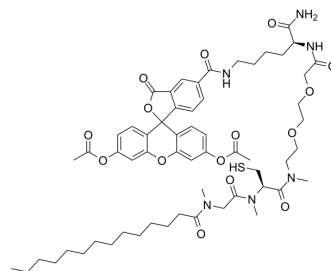
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mgc(3Me)FDA

Cat. No.:	HY-D2300
CAS No.:	2763442-01-7
Molecular Formula:	C ₅₉ H ₈₀ N ₆ O ₁₅ S
Molecular Weight:	1145.36
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	mgc(3Me)FDA is fluorescein diacetate (FDA) modified with a cell-permeable myrGC ^{3Me} motif. mgc(3Me)FDA can enter cells and be converted into fluorescently active mgc(3Me)FL (HY-D2301) within the cells. mgc(3Me)FDA is subcellularly localized in the Golgi apparatus and is a visualized Golgi probe ^[1] .								
In Vitro	<p>After mgc(3Me)FDA (10 μM; 10 min) treats HeLa cells, it can co-localize with the Golgi apparatus around the nucleus and display green fluorescence^[1].</p> <p>mgc(3Me)FDA (2.5 μM; 30-270 min) In HeLa living cells induced by Brefeldin A (HY-16592), dynamic changes in morphology during Golgi cleavage can be visualized^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Immunofluorescence^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>Human epithelial HeLa cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>10 min</td> </tr> <tr> <td>Result:</td> <td>Occured fluorescence mainly in the perinuclear Golgi region and co-localized with Golgi-tagged fluorescent protein (mCherry-Giantin).</td> </tr> </table>	Cell Line:	Human epithelial HeLa cells	Concentration:	10 μM	Incubation Time:	10 min	Result:	Occured fluorescence mainly in the perinuclear Golgi region and co-localized with Golgi-tagged fluorescent protein (mCherry-Giantin).
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REFERENCES

[1]. Sawada S, et al. Palmitoylation-Dependent Small-Molecule Fluorescent Probes for Live-Cell Golgi Imaging. ACS Chem Biol. 2023 May 19;18(5):1047-1053.

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

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