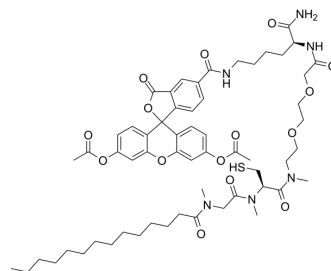


mgc(3Me)FDA

| | |
|--------------------|---|
| 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"> <tr> <td>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). |
| 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). | | | | | | | | |

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA