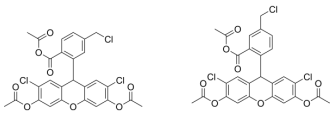
CM-H2DCFDA

Cat. No.:	HY-D1713
CAS No.:	850013-49-9
Molecular Formula:	$C_{27}H_{19}Cl_3O_8$
Molecular Weight:	577.79
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	CM-H2DCFDA is a derivative of H2DCFDA (HY-D0940). CM-H2DCFDA can be used to determine cellular oxidant levels (Ex/Em: 495/530 nm). CM-H2DCFDA is light-sensitive[1].
In Vitro	Guidelines[2] (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).ROS Measurement:1. Incubate the cells according to your normal protocol.2. Treat cells with 10 μM CM-H2DCFDA for 30 min at 37°C in darkness.3. Wash the excess probe.4. Analyze sample on a flow cytometer, fluorescence microscopy, or fluorescence microplate reader. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Transl Med. 2024 Apr 26;22(1):390.
- Front Public Health. 2023 Jul 13;11:1222762.

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REFERENCES

[1]. Oparka M, et al. Quantifying ROS levels using CM-H2DCFDA and HyPer. Methods. 2016 Oct 15;109:3-11.

[2]. Kolarova H, et al. Production of reactive oxygen species after photodynamic therapy by porphyrin sensitizers. Gen Physiol Biophys. 2008 Jun;27(2):101-5.

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