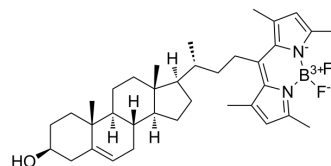


BODIPY-Cholesterol

Cat. No.:	HY-125746
CAS No.:	878557-19-8
Molecular Formula:	C ₃₆ H ₅₁ BF ₂ N ₂ O
Molecular Weight:	576.61
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (1.73 mM; Need ultrasonic and warming)
H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7343 mL	8.6714 mL	17.3427 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BODIPY-cholesterol is an intrinsically lipophilic, and cell-permeable analog of cholesterol with a fluorescent BODIPY group. BODIPY-cholesterol can be used to monitor sterol uptake and inter-organelle sterol flux in cells. (Excitation/Emission: 480/508 nm)^[1].

In Vitro

BODIPY-cholesterol assay

To prepare a stock solution of BODIPY-cholesterol for this assay, the analogue is reconstituted in DMSO to a stock concentration of 1-10 μM^[1].

Cells diluted with PBS (or other buffers) are washed (300×g, 10 min) to remove excess diluent and the loose pellet resuspended with vehicle media to a proper concentration^[1].

Cell suspensions are labeled with BODIPY-cholesterol (final concentration of 0.5-5 μM), mixed thoroughly and incubated for 10 -20 mins at 37 °C^[1].

The cells are diluted with each of the capacitation media conditions as outlined in Incubation media to a final concentration and incubated for 2 h prior to flow cytometric assessment^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Clin Epigenetics. 2022 Dec 24;14(1):184.
- Research Square Print. 2022 May.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Daniel Wüstner, et al. Potential of BODIPY-cholesterol for analysis of cholesterol transport and diffusion in living cells. Chem Phys Lipids. 2016 Jan;194:12-28.
- [2]. Maarit Hölttä-Vuori, et al. BODIPY-cholesterol: a new tool to visualize sterol trafficking in living cells and organisms. Traffic. 2008 Nov;9(11):1839-49.
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Caution: Product has not been fully validated for medical applications. For research use only.

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