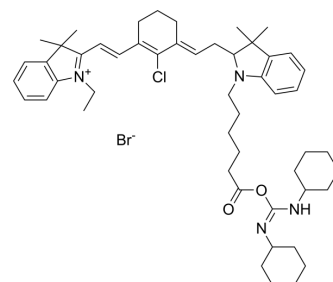


IR-251

Cat. No.:	HY-155062
Molecular Formula:	C ₅₁ H ₇₀ BrClN ₄ O ₂
Molecular Weight:	886.48
Target:	Mitochondrial Metabolism; Reactive Oxygen Species; β -catenin; Fluorescent Dye; PPAR
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation; NF- κ B; Stem Cell/Wnt; Others; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

IR-251 is a mitochondrion-targeting NIR fluorescent probe. IR-251 targets mitochondria via OATPs and causes mitochondrial damage in tumor cells. IR-251 induced ROS overproduction by inhibiting PPAR γ , and then inhibiting the β -catenin signaling pathway and downstream protein molecules related to the cell cycle and metastasis. IR-251 inhibits tumor proliferation and metastasis^[1].

REFERENCES

[1]. Wang J, et al. A novel multifunctional mitochondrion-targeting NIR fluorophore probe inhibits tumour proliferation and metastasis through the PPAR γ /ROS/ β -catenin pathway. *Eur J Med Chem.* 2023 Oct 5;258:115435.

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

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