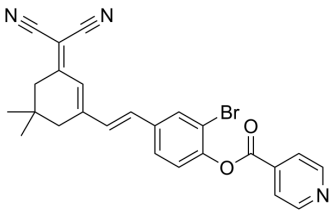
DCI-Br-3

Cat. No.:	HY-151615
Molecular Formula:	$C_{25}H_{20}BrN_3O_2$
Molecular Weight:	474.35
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DCI-Br-3 is a rapid, highly sensitive, and selective probe to monitor thiols in the epileptic brain. (λ_{ex}=537 nm, λ_{em}=675 nm).DCI-Br-3 can effectively cross the blood-brain barrier (BBB)[1].
In Vitro	DCI-Br-3 (0-20 μM; 30 min; SH-SY5Y cells) increases intracellular fluorescence in a concentration-dependent manner and has a good response to thiols in SH-SY5Y cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	DCI-Br-3 (5 mg/kg; i.p.; BALB/c mice) effectively crosses the blood-brain barrier and help monitor the decrease of thiols in the brain[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c mice (6 weeks of age)[1]
Dosage:	5 mg/kg
Administration:	intraperitoneal injection
Result:	Crossed the blood−brain barrier and had red fluorescence in BALB/c mice.

REFERENCES

[1]. Yang Y, et, al. Synergistic Modulation by Halogens and Pyridine Crossing the Blood-Brain Barrier for InSitu Visualization of Thiol Flux in the Epileptic Brain. Anal Chem. 2022 Oct 18;94(41):14443-14452.

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