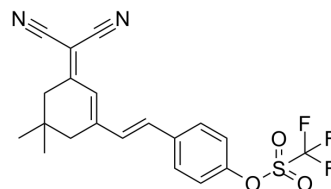


NIR-FP

Cat. No.:	HY-149422
Molecular Formula:	C ₂₀ H ₁₇ F ₃ N ₂ O ₃ S
Molecular Weight:	422.42
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NIR-FP is a near-infrared fluorescent probe with high sensitivity and selectivity for superoxide anion O ²⁻ . O ²⁻ is the main precursor of ROS, and ferroptosis-mediated epilepsy models can be dynamically tracked by detecting O ²⁻ . Ferroptosis-mediated epilepsy models include: kainic acid (HY-N2309)-induced chronic epilepsy model, Pentylentetrazole-induced acute epilepsy model, and pilocarpine (HY-B0726A)-induced epilepsy model ^[1] .
IC₅₀ & Target	Superoxide anion (O ₂ ⁻) ^[1]

REFERENCES

[1]. Yang W, et al. Novel Near-Infrared Fluorescence Probe for Bioimaging and Evaluating Superoxide Anion Fluctuations in Ferroptosis-Mediated Epilepsy. *Anal Chem.* 2023 Aug 22;95(33):12240-12246..

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

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