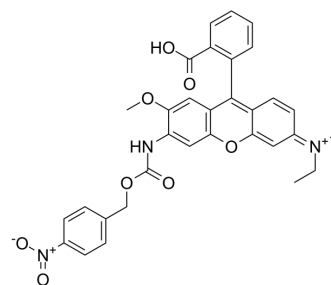


3-MeOARh-NTR

Cat. No.:	HY-149836		
Molecular Formula:	$C_{33}H_{30}N_3O_8^+$		
Molecular Weight:	596.61		
Target:	Fluorescent Dye		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (8.38 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.6761 mL	8.3807 mL	16.7614 mL
5 mM	0.3352 mL	1.6761 mL	3.3523 mL
10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

3-MeOARh-NTR is an activatable imaging probe with high selectivity, and good stability. 3-MeOARh-NTR possesses high selectivity and high signal-to-noise ratio for nitroreductase (NTR) detection, and serves as an efficient molecular tool for endogenous NTR detection^[1].

In Vitro

3-MeOARh-NTR (10 μM, 30 min; cell incubated with 20% O₂ and 10% O₂ for 12 h) produces a strong fluorescence signal in living HeLa cells with decreasing oxygen contents^[1].
 3-MeOARh-NTR (10 μM, 30 min) produces fluorescence imaging of kidney tissues from mice with λ_{ex} = 488 nm and λ_{em} = 510-590 nm. Thus, 3-MeOARh-NTR is an efficient probe to evaluate kidney hypoxia by NTR detection^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guo H, et al. Designing a Brightness-Restored Rhodamine Derivative by the Ortho-Compensation Effect for Assessing Drug-Induced Acute Kidney Injury. Anal Chem. 2023 May 2;95(17):6863-6870.

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

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