SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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EtS-DMAB

Cat. No.: HY-D1265

CAS No.: 2929446-76-2

Molecular Formula: $C_{10}H_{13}N_3OS$

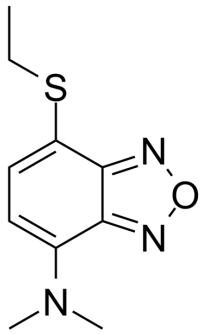
Molecular Weight: 223.29

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (223.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4785 mL	22.3924 mL	44.7848 mL
	5 mM	0.8957 mL	4.4785 mL	8.9570 mL
	10 mM	0.4478 mL	2.2392 mL	4.4785 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EtS-DMAB (HClO-green) is a fluorescent probe, which can selectively detect hypochlorous acid (HOCl) (λex=440 nm, λem=610 nm). EtS-DMAB is applied to image exogenous and endogenous HOCl in live cells[1].

In Vitro

EtS-DMAB can selectively detect hypochlorous acid (HOCl) over other reactive oxygen species in aqueous solution with a large stokes shift (⊠170 nm). It turns out that oxidation of the thioether to the corresponding sulfoxide accounts for the turn-on fluorescence[1].

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

REFERENCES

[1]. Jinyu Sun, et al. Highly selective fluorometric probes for detection of HClO in living cells. Sensors and Actuators B: Chemical. August 2018, 266 (1): 447-454.

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

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