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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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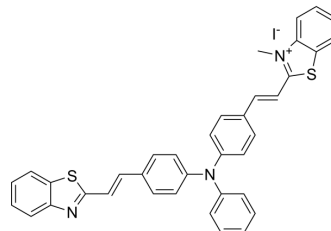
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BETA-1

Cat. No.:	HY-152073
CAS No.:	2924598-24-1
Molecular Formula:	C ₃₇ H ₂₈ IN ₃ S ₂
Molecular Weight:	705.67
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (35.43 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.4171 mL	7.0855 mL	14.1709 mL
		5 mM		0.2834 mL	1.4171 mL	2.8342 mL
		10 mM		0.1417 mL	0.7085 mL	1.4171 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 (3.54 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BETA-1 is the first twisted intramolecular charge transfer (TICT)-aggregation-induced emission (AIE) integration molecule. BETA-1 emits cyan fluorescence in lipid droplets (LDs) and red fluorescence in mitochondria. BETA-1 can be used for the simultaneous and dual-color imaging of LDs and mitochondria in vivo and in vitro ^[1] .
In Vitro	BETA-1 can be used for imaging of LDs and Mitochondria in live cells ^[1] . Wavelength: cyan: λ_{ex} = 405 nm, λ_{em} = 430–500 nm; red: λ_{ex} = 561 nm, λ_{em} = 600–700 nm). 1. HeLa cells were cultured in DMEM supplemented with 10% FBS in a CO ₂ /air (5%/95%) incubator at 37 °C. 2. A total of 5.0×10^3 HeLa cells per well were seeded on a glass-bottom 96-well plate and incubated for 24 h. 3. For cell imaging, live HeLa cells were stained with 5 μ M BETA-1 at 37 °C for 30 min. 4. The emission of BETA-1 was collected under excitation at 405 or 561 nm. Digital images were recorded using a laser scanning confocal microscope. The images were analyzed with Fiji/ImageJ. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zeng ST, et al. Construction of a TICT-AIE-Integrated Unimolecular Platform for Imaging Lipid Droplet-Mitochondrion Interactions in Live Cells and In Vivo. ACS Sens. 2022 Dec 19.

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

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