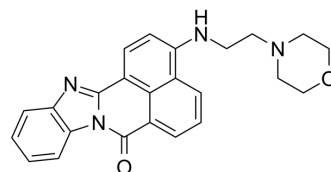


DND-189

Cat. No.:	HY-D1457
CAS No.:	152584-38-8
Molecular Formula:	C ₂₄ H ₂₂ N ₄ O ₂
Molecular Weight:	398.46
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.55 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5097 mL	12.5483 mL	25.0966 mL
5 mM	0.5019 mL	2.5097 mL	5.0193 mL
10 mM	0.2510 mL	1.2548 mL	2.5097 mL

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

BIOLOGICAL ACTIVITY

Description

DND-189, a low-pH fluorescent probe, is sensitive to neutral and low pH range. DND-189 can be used to measure the pH of acidic organelles^{[1][2]}.

REFERENCES

- [1]. Lin HJ, et, al. Fluorescence lifetime characterization of novel low-pH probes. *Anal Biochem.* 2001 Jul 15;294(2):118-25.
- [2]. Leemans B, et, al. pH-dependent effects of procaine on equine gamete activation. *Biol Reprod.* 2019 Nov 21;101(5):1056-1074.

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

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