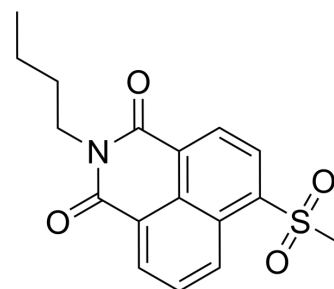


MSBN

Cat. No.:	HY-119493		
CAS No.:	135980-66-4		
Molecular Formula:	C ₁₇ H ₁₇ NO ₄ S		
Molecular Weight:	331.39		
Target:	Others		
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 : 100 mg/mL (301.76 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0176 mL	15.0880 mL	30.1759 mL
	5 mM	0.6035 mL	3.0176 mL	6.0352 mL
	10 mM	0.3018 mL	1.5088 mL	3.0176 mL

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

BIOLOGICAL ACTIVITY

Description

MSBN is a highly selective fluorogenic probe for thiols. MSBN can be used to image thiols in live cells selectively and specifically label protein thiols with a signal to determine various reversible protein thiol modifications^[1].

In Vitro

MSBN (5 μM; 0-60 min) shows a clean reaction with thiols (1 mM) to give a remarkable fluorescence signal^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhou P, et al. Naphthalimide Scaffold Provides Versatile Platform for Selective Thiol Sensing and Protein Labeling. ACS Chem Biol. 2016 Apr 15;11(4):1098-105.

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

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