



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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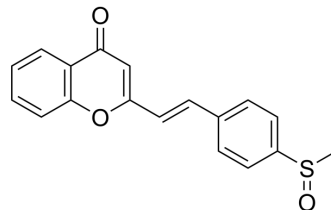
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Msr-Ratio

Cat. No.:	HY-D1257
CAS No.:	2290635-22-0
Molecular Formula:	C ₁₈ H ₁₄ O ₃ S
Molecular Weight:	310.37
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (322.20 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.2220 mL	16.1098 mL	32.2196 mL	
5 mM	0.6444 mL	3.2220 mL	6.4439 mL	
10 mM	0.3222 mL	1.6110 mL	3.2220 mL	

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

BIOLOGICAL ACTIVITY

Description

Msr-Ratio (Msr-green) is a ratiometric fluorescent probe of methionine sulfoxide reductase ($\lambda_{ex}=375$ nm, $\lambda_{em}=550$ nm). Msr-Ratio is used for monitoring the enzyme activity in vitro and in live cells^[1].

In Vitro

Msr-Ratio is converted to its corresponding sulfide form by methionine sulfoxide reductase. Msr-Ratio displays favorable properties such as a nearly 400-fold fluorescence change, fast response rate (<30 min), large Stokes shift (120 nm), and green emission (550 nm)^[1].

There is a very weak background signal in live HL60 cells after the addition of Msr-Ratio. As the Msr-Ratio (10 μ M) incubation time increased in cells from 0 to 8 h, the fluorescence signal constantly strengthened^[1].

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

REFERENCES

[1]. Liangwei Zhang, et al. A ratiometric fluorescent probe of methionine sulfoxide reductase with an improved response rate and emission wavelength. Chem Commun (Camb). 2019 Jan 29;55(10):1502-1505.

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

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