



SZABO SCANDIC

Part of Europa Biosite

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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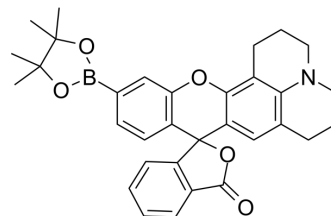
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Peroxy Orange 1

Cat. No.:	HY-103469
CAS No.:	1199576-10-7
Molecular Formula:	C ₃₂ H ₃₂ BNO ₅
Molecular Weight:	521.41
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.21 mg/mL (9.99 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.9179 mL	9.5894 mL	19.1788 mL
	5 mM		0.3836 mL	1.9179 mL	3.8358 mL
	10 mM		---	---	---

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

BIOLOGICAL ACTIVITY

Description

Peroxy Orange 1 (PO1) is a new H₂O₂ specific probe that can bind to green fluorescent highly reactive oxygen species (hROS) probe APF. Peroxy Orange 1 is also a living cell dye^{[1][2]}.

CUSTOMER VALIDATION

- Redox Biol. 2024 May 24;73:103180.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Dickinson BC, et al. A palette of fluorescent probes with varying emission colors for imaging hydrogen peroxide signaling in living cells. J Am Chem Soc. 2010 Apr 28;132(16):5906-15.

[2]. Moloney JN, et al. Subcellular localization of the FLT3-ITD oncogene plays a significant role in the production of NOX- and p22phox-derived reactive oxygen species in acute myeloid leukemia. Leuk Res. 2017 Jan;52:34-42.

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

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