



# 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

### SZABO-SCANDIC HandelsgmbH

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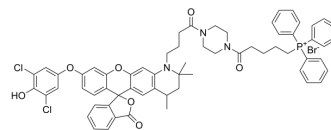
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## HKOCl-4m

<b>Cat. No.:</b>	HY-D1158
<b>CAS No.:</b>	2031170-88-2
<b>Molecular Formula:</b>	C <sub>63</sub> H <sub>61</sub> BrCl <sub>2</sub> N <sub>3</sub> O <sub>7</sub> P
<b>Molecular Weight:</b>	1153.96
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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

<b>In Vitro</b>	DMSO : 52.5 mg/mL (45.50 mM; Need ultrasonic)				
	<b>Preparing Stock Solutions</b>	<b>Solvent</b> \ <b>Mass</b> \ <b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	0.8666 mL	4.3329 mL	8.6658 mL
		<b>5 mM</b>	0.1733 mL	0.8666 mL	1.7332 mL
		<b>10 mM</b>	0.0867 mL	0.4333 mL	0.8666 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.63 mg/mL (2.28 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	HKOCl-4m is a selective and mitochondria-targeting rhodol-based fluorescent probe for monitoring mitochondrial hypochlorous acid (HOCl) <sup>[1]</sup> .
<b>In Vitro</b>	HKOCl-4m (5 μM; 30 min) exhibits robust increase in fluorescence intensity upon addition of HOCl. HKOCl-4m has been successfully applied in detecting endogenous HOCl in RAW264.7 mouse macrophages. HKOCl-4m could be applied for monitoring the mitochondrial HOCl formation in living cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Xiaoyu Bai, et al. HKOCl-4: a rhodol-based yellow fluorescent probe for the detection of hypochlorous acid in living cells and tissues. Org. Chem. Front, 2020.

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

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