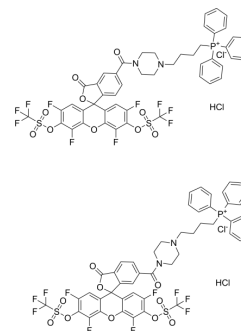


## HKSOX-1m (5/6-mixture)

<b>Cat. No.:</b>	HY-D1156
<b>CAS No.:</b>	1786411-19-5
<b>Molecular Formula:</b>	C <sub>49</sub> H <sub>37</sub> Cl <sub>2</sub> F <sub>10</sub> N <sub>2</sub> O <sub>10</sub> PS <sub>2</sub>
<b>Molecular Weight:</b>	1169.82
<b>Target:</b>	Reactive Oxygen Species; Fluorescent Dye
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 55 mg/mL (47.02 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		0.8548 mL	4.2742 mL	8.5483 mL
		<b>5 mM</b>		0.1710 mL	0.8548 mL	1.7097 mL
<b>10 mM</b>		0.0855 mL	0.4274 mL	0.8548 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: 2.75 mg/mL (2.35 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	HKSOX-1m (5/6-mixture) is a O <sub>2</sub> fluorescent probe for mitochondria-targeting (Ex/Em=509/534nm; green), exhibiting excellent selectivity and sensitivity toward O <sub>2</sub> over a broad range of pH, strong oxidants, and abundant reductants found in cells <sup>[1]</sup> .
<b>In Vitro</b>	HKSOX-1m (5/6-mixture) (10 μM) sensitively captures signals for basal and Antimycin A (1 μM)-stimulated mitochondrial O <sub>2</sub> in differentiated human THP-1 cells, at very low laser power output (1% intensity at Ex 514 nm on Zeiss LSM 510 Meta) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Jun Jacob Hu, et al. Fluorescent Probe HKSOX-1 for Imaging and Detection of Endogenous Superoxide in Live Cells and In Vivo. J Am Chem Soc. 2015 Jun 3;137(21):6837-43.

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

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