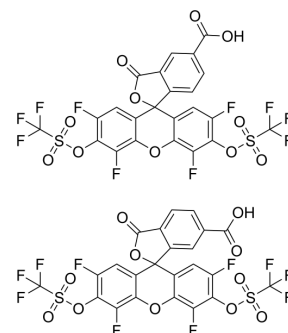


HKSOX-1 (5/6-mixture)

Cat. No.:	HY-130015
Molecular Formula:	C ₂₃ H ₆ F ₁₀ O ₁₁ S ₂
Molecular Weight:	712.4
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°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 : 110 mg/mL (154.41 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.4037 mL	7.0185 mL	14.0371 mL
		5 mM	0.2807 mL	1.4037 mL	2.8074 mL
	10 mM	0.1404 mL	0.7019 mL	1.4037 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.75 mg/mL (3.86 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.75 mg/mL (3.86 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	HKSOX-1 is a fluorescent probe which is used for imaging and detection of endogenous superoxide in live cells and in vivo. HKSOX-1 exhibits excellent selectivity and sensitivity towards superoxide anion radical ^[1] .
In Vitro	HKSOX-1 (10 μM) reacts with O ₂ ²⁻ in potassium phosphate buffer at 25 °C to produce a dramatic time-dependent fluorescence increase, which is completed within 10 min, and the fluorescence intensity remains unchanged within 60 min ^[1] . ?HKSOX-1 (10 μM) exhibits excellent stability toward pH changes in the range of 2.2-8.8 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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