HKSOX-1r (5/6-mixture)

Cat. No.: HY-130017

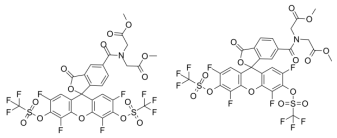
Molecular Formula: $C_{29}H_{15}F_{10}NO_{14}S_2$

Molecular Weight: 855.54

Target: Reactive Oxygen Species

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (233.77 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1689 mL	5.8443 mL	11.6885 mL
	5 mM	0.2338 mL	1.1689 mL	2.3377 mL
	10 mM	0.1169 mL	0.5844 mL	1.1689 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (5.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HKSOX-1r (5/6-mixture) is a fluorescent probe which is used for imaging and detection of endogenous superoxide in live cells and in vivo. HKSOX-1r (5/6-mixture) exhibits excellent selectivity and sensitivity towards superoxide anion radical[1].

In Vitro

HKSOX-1r (5/6-mixture) (2 μM; 30 min) detects mitochondrial respiratory inhibitor-induced $O_2^{\cdot-}$ formation in a highly sensitive and rapid manner in HCT116, BV-2 and RAW264.7 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

HKSOX-1r (5/6-mixture) (10 μM; 20 min) detects distinct fluorescence distribution in zebrafish embryos are subjected to challenge of PMA or Antimycin A[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hu JJ, 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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