Sodium thiocyanate, GR, 99%

Cat. No.:	HY-23119
CAS No.:	540-72-7
Molecular Formula:	CNNaS
Molecular Weight:	81.07
Target:	Interleukin Related; Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

NaSCN

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (616.75 mM; Need ultrasonic)

	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	**1 mM**	12.3350 mL	61.6751 mL	123.3502 mL
	5 mM	2.4670 mL	12.3350 mL	24.6700 mL
	10 mM	1.2335 mL	6.1675 mL	12.3350 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: ≥ 2.5 mg/mL (30.84 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (30.84 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (30.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sodium thiocyanate reduces plasma levels of the pro-inflammatory cytokine IL-6, and increases the anti-inflammatory cytokine IL-10 levels. Sodium thiocyanate also significantly reduces of ROS formation[1].

IC_{50} & Target

IL-6 | IL-10

In Vitro

Sodium thiocyanate attenuates atherosclerotic plaque formation and improves endothelial regeneration in mice. Sodium thiocyanate improves inflammatory cytokine levels in the plasma as well as ROS and chlorotyrosine formation in the vessel wall[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zietzer A, et al. Sodium thiocyanate treatment attenuates atherosclerotic plaque formation and improves endothelial regeneration in mice.PLoS One. 2019 Apr 2;14(4):e0214476.

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