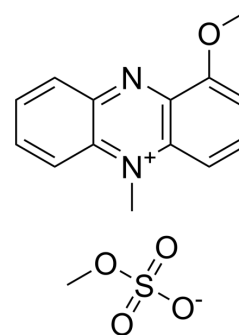


Methoxy-PMS

Cat. No.:	HY-D0937
CAS No.:	65162-13-2
Molecular Formula:	C ₁₅ H ₁₆ N ₂ O ₅ S
Molecular Weight:	336.36
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, 1 year; -20°C, 6 months (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 30 mg/mL (89.19 mM; Need ultrasonic and warming)
H₂O : 6.67 mg/mL (19.83 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9730 mL	14.8650 mL	29.7301 mL
	5 mM		0.5946 mL	2.9730 mL	5.9460 mL
	10 mM		0.2973 mL	1.4865 mL	2.9730 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 9.09 mg/mL (27.02 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.25 mg/mL (6.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.25 mg/mL (6.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methoxy-PMS (1-Methoxy PMS), an active oxygen formation inducer, is stable electron-transport mediator between NAD(P)H and tetrazolium dyes^{[1][2]}.

In Vitro

Methoxy-PMS has no cytotoxicity in the cell culture media. Methoxy-PMS receives an electron from NADH or NADPH at the membrane or inside of the cell and passes the electron to the WST-8 that is around the outer cell membrane^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- PLoS One. 2022 Jul 22;17(7):e0271818.
- protocols.io. 2023 jan 31.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. De Niz M et al. Tools for mass screening of G6PD deficiency: validation of the WST8/1-methoxy-PMS enzymatic assay in Uganda. *Malar J.* 2013 Jun 19;12:210.
- [2]. Arakawa H et al. Chemiluminescence assay for tetrahydrobiopterin based on the generation of hydrogen peroxide using isoluminol-microperoxidase in the presence of 1-methoxy PMS. *Luminescence.* 2007 May-Jun;22(3):245-50.
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Caution: Product has not been fully validated for medical applications. For research use only.

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