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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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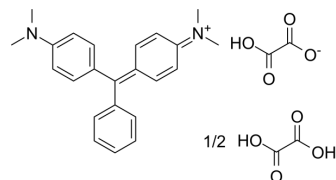
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Malachite green hemioxalate

Cat. No.:	HY-D0162
CAS No.:	2437-29-8
Molecular Formula:	$C_{23}H_{25}N_2 \cdot 1/2 C_2H_2O_4 \cdot C_2HO_4$
Molecular Weight:	463.5
Target:	IKK; NF- κ B; Apoptosis
Pathway:	NF- κ B; Apoptosis
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 10 mg/mL (21.57 mM) * " \geq " means soluble, but saturation unknown.				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1575 mL	10.7875 mL	21.5750 mL
		5 mM	0.4315 mL	2.1575 mL	4.3150 mL
10 mM		0.2157 mL	1.0787 mL	2.1575 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 (5.39 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Malachite green hemioxalate is a triphenylmethane dye which can be used to detect the release of phosphate in enzymatic reactions. Malachite green hemioxalate is also a potent and selective inhibitor of IKK β , and inhibits its downstream targets such as I κ B α , p65 and IRF3. Malachite green hemioxalate exhibits antitumor activity in vitro and in vivo ^{[1][2][3]} .
IC₅₀ & Target	IKK β ^[3]

CUSTOMER VALIDATION

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- Mol Ther Oncolytics. 25 August 2022.

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REFERENCES

- [1]. Kozuka S, et, al. Permeability of dormant spores of Bacillus subtilis to malachite green and crystal violet. J Gen Microbiol. 1991 Mar; 137(3): 607-13.
- [2]. Takahashi S, et, al. Reversible off-on fluorescence probe for hypoxia and imaging of hypoxia-normoxia cycles in live cells. J Am Chem Soc. 2012 Dec 5; 134(48): 19588-91.
- [3]. Liu T, et, al. Identification of an IKBKE inhibitor with antitumor activity in cancer cells overexpressing IKBKE. Cytokine. 2019 Apr; 116: 78-87.
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Caution: Product has not been fully validated for medical applications. For research use only.

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