Methyl Green

Cat. No.: HY-D0163

CAS No.: 14855-76-6

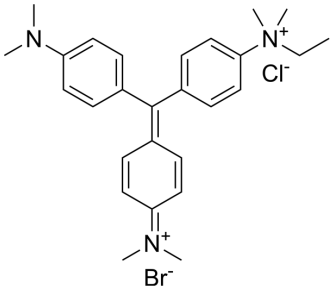
Molecular Formula: $C_{27}H_{35}BrClN_3$

Molecular Weight: 516.94

Target: DNA Stain

Pathway: Cell Cycle/DNA Damage

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 : 125 mg/mL (241.81 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9345 mL	9.6723 mL	19.3446 mL
	5 mM	0.3869 mL	1.9345 mL	3.8689 mL
	10 mM	0.1934 mL	0.9672 mL	1.9345 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: ≥ 2.08 mg/mL (4.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl Green is a potent fluorescent dye. Methyl Green is a DNA stains of cells and electrophoretic gels. Methyl Green can be used as a stain for direct measuring of viability by both microscopy and flow cytometry, with peaks at 633 and 677 nm[1][2].

REFERENCES

[1]. Prieto D, et, al. A fast, low cost, and highly efficient fluorescent DNA labeling method using methyl green. Histochem Cell Biol. 2014 Sep;142(3):335-45.

[2]. Kim SK, et, al. Methyl green. A DNA major-groove binding drug. FEBS Lett. 1993 Jan 2;315(1):61-4.

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

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