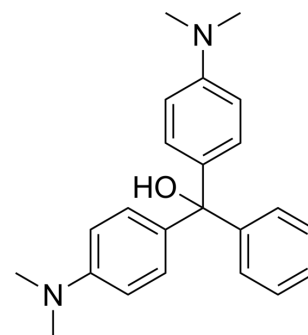


## Malachite Green Carbinol base

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-D1200   |
| CAS No.:           | 510-13-4   |
| Molecular Formula: | C <sub>23</sub> H <sub>26</sub> N <sub>2</sub> O   |
| Molecular Weight:  | 346.47   |
| Target:            | Fungal; Parasite   |
| Pathway:           | Anti-infection   |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### BIOLOGICAL ACTIVITY

|             |   |
|-------------|---|
| Description | Malachite Green Carbinol base (MGOH, MGCB) is a derivative of Malachite green (MG) with not fluorescence. Malachite green carbinol base (MGOH, MGCB), as a pH regulation reagent, MGCB molecule could release OH <sup>-</sup> under UV light irradiation and generate a progressive shift in pH values. MGCB solution turns from colorless to deep green rapidly when exposed to a high-pressure UV lamp (500 W, 50 W/cm) <sup>[1][2]</sup> . |
| In Vitro    | Malachite Green Carbinol base (MGOH, MGCB), a triphenylmethane leucohydroxide derivative, is used as a light-induced hydroxide ion emitter. Used for dyeing silk, wool, jute, leather, and cotton. Also used as a biological stain and fungicide/parasiticide for fish <sup>[1][2]</sup> MCE has not independently confirmed the accuracy of these methods. They are for reference only.  |

### REFERENCES

- [1]. Yubin Zhou, et al. Organic additives stabilize RNA aptamer binding of malachite green. Talanta. 2016 Nov 1;160:172-182
- [2]. Can Xu, et al. Versatile Dual Photoresponsive System for Precise Control of Chemical Reactions. ACS Nano. 2017 Aug 22;11(8):7770-7780.

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

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