
Product Data Sheet

Product Name: Crystal Violet

Cat. No.: GC11687

Chemical Properties

Cas. No. 548-62-9

Chemical Name [4-[bis[4-(dimethylamino)phenyl]methylidene]cyclohexa-2,5-dien-1-ylidene]-dimethylazanium;chloride

SMILES CN(C)C1=CC=C(C=C1)C(=C2C=CC(=[N+](C)C)C=C2)C3=CC=C(C=C3)N(C)C.[Cl-]Formula C₂₅H₃₀ClN₃ M.Wt 407.98

Solubility ≥ 19.65mg/mL in DMSO Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Crystal violet is a triarylmethane dye.

Crystal Violet is a component of Gram staining that allows one to recognize the difference between gram-positive and gram-negative bacteria with differential staining. The compound helps to access bacterial contamination of tissue culture samples. The staining response is due to the difference in the chemical and structural composition of the cell walls in different bacteria. Crystal Violet can also be used to test the different species of archaea and the cytostatic/cytotoxic effects on tumor cell lines [1][2][3].

References:

- [1]. Beveridge, T.J. and S. Schultze-Lam, The response of selected members of the archaea to the gram stain. Microbiology, 1996. 142 (Pt 10): p. 2887-95.
- [2]. Coico, R., Gram staining. Curr Protoc Microbiol, 2005. Appendix 3: p. Appendix 3C.
- [3]. Bil, J., et al., Statins potentiate cytostatic/cytotoxic activity of sorafenib but not

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

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sunitinib against tumor cell lines in vitro. Cancer Lett, 2010. 288(1): p. 57-67.

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