

Giemsa stain

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 51811-82-6 |
| Formula: | C ₁₄ H ₁₄ ClN ₃ S |
| Molecular Weight: | 291.80 |
| Storage: | Keep away from moisture,Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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| Description | Giemsa stain is a classic thiazine-eosin type polychromatic dye that produces the Romanowsky-Giemsa effect, clearly distinguishing cell nuclei (purple) from RNA-rich cytoplasm (blue). Giemsa stain has wide applications in hematology, microbiology, cytogenetics, and pathology, including the detection of parasites such as Plasmodium species and chromosomal banding analysis. |
| Targets(IC50) | Others |

Solubility Information

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| Solubility | DMSO: 16.66 mg/mL (57.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 3.427 mL | 17.135 mL | 34.270 mL |
| 5 mM | 0.6854 mL | 3.427 mL | 6.854 mL |
| 10 mM | 0.3427 mL | 1.7135 mL | 3.427 mL |
| 50 mM | 0.0685 mL | 0.3427 mL | 0.6854 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Barcia JJ, et al. The Giemsa stain: its history and applications. *Int J Surg Pathol.* 2007;15(3):292-296.

Dolan M, et al. The role of the Giemsa stain in cytogenetics. *Biotech Histochem.* 2011;86(2):94-97.

Khan H, et al. Comparison of special stains (Giemsa stain and Modified Toluidine Blue stain) with immunohistochemistry as gold standard for the detection of *H. pylori* in gastric biopsies. *Arab J Gastroenterol.* 2022;23(2):75-81.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481