

Product Data Sheet

Product Name: Phenoxazine

Cat. No.: GC47948

Chemical Properties

Cas. No. 135-67-1

SMILES C12=CC=CC=C1NC3=C(C=CC=C3)O2

Formula C₁₂H₉NO

M.Wt 183.2

Solubility DMF: 15mg/mL, DMSO:

Storage Store at -20°C

10mg/mL, Ethanol:

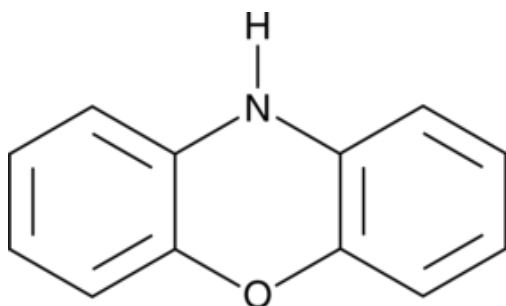
20mg/mL, Ethanol:PBS (pH 7.2)

(1:4): 0.2mg/mL

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

Phenoxazine is a heterocyclic building block.¹ It has been used in the synthesis of phenoxazine derivatives that have anticancer and antimicrobial activities *in vitro*.^{2,3} Phenoxazine has also been used in the synthesis of phenoxazine derivatives used as chromogenic substrates.⁴

1. Shruti, Dwivedi, J., Kishore, D., et al. Recent advancement in the synthesis of phenoxazine derivatives and their analogues *Synthetic Commun.* 48(12)1377-1402(2018) 2. Shimizu, S., Suzuki, M., Tomoda, A., et al. Phenoxazine compounds produced by the reactions with bovine hemoglobin show antimicrobial activity against non-tuberculosis mycobacteria *Tohoku J. Exp. Med.* 203(1)47-52(2004)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

3. Che, X.-F., Zheng, C.-L., Akiyama, S.-I., et al. 2-Aminophenoxazine-3-one and 2-amino-4,4 α -dihydro-4 α ,7-dimethyl-3H-phenoxazine-3-one cause cellular apoptosis by reducing higher intracellular pH in cancer cells *Proc. Jpn. Acad. Ser. B Phys. Biol. Sci.* 87(4)199-213(2011)

4. Jana, N.C., Patra, M., Brandão, P., et al. Synthesis, structure and diverse coordination chemistry of cobalt(III) complexes derived from a Schiff base ligand and their biomimetic catalytic oxidation of o-aminophenols *Polyhedron* 16423-34(2019)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA