

---

## Product Data Sheet

---

Product Name: Phenosafranine

Cat. No.: GC65334

### Chemical Properties

Cas. No. 81-93-6

Formula C<sub>18</sub>H<sub>15</sub>CIN<sub>4</sub>

M.Wt 322.79

Solubility DMSO : 125 mg/mL (387.25 mM; Need ultrasonic) Storage Store at -20°C

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

Phenosafranine is a phenazine dye. Phenosafranine has high binding affinity to triplex RNA compared to the parent duplex form, binds through intercalation to both forms of RNA. Phenosafranine can be used for staining plant cells, determination of hemoglobin, dopamine, serotonin and so on[1][2][3].

[1]. Widholm JM. The use of fluorescein diacetate and phenosafranine for determining viability of cultured plant cells. Stain Technol. 1972 Jul;47(4):189-94.

[2]. Liu, W., et al. Characterization of Phenosafranine-Hemoglobin Interactions in Aqueous Solution. J Solution Chem 40, 231-246 (2011).

[3]. Pradhan AB, et al. An overview on the interaction of phenazinium dye phenosafranine to RNA triple and double helices. Int J Biol Macromol. 2016 May;86:345-51.

**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