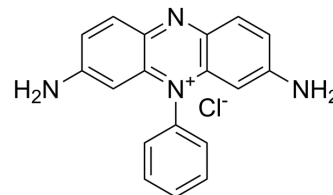


## Phenosafranine

Cat. No.:	HY-W040198
CAS No.:	81-93-6
Molecular Formula:	C <sub>18</sub> H <sub>15</sub> ClN <sub>4</sub>
Molecular Weight:	322.79
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (387.25 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0980 mL	15.4899 mL	30.9799 mL
	5 mM		0.6196 mL	3.0980 mL	6.1960 mL
	10 mM		0.3098 mL	1.5490 mL	3.0980 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

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<sup>[1][2][3]</sup>.

### REFERENCES

- [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.

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

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