Phenazine ethosulfate

Cat. No.: HY-D1509

CAS No.: 10510-77-7

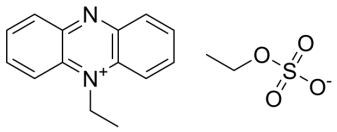
Molecular Formula: $C_{16}H_{18}N_2O_4S$

Molecular Weight: 334.39

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (299.05 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9905 mL	14.9526 mL	29.9052 mL
	5 mM	0.5981 mL	2.9905 mL	5.9810 mL
	10 mM	0.2991 mL	1.4953 mL	2.9905 mL

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

BIOLOGICAL ACTIVITY

Description

Phenazine ethosulfate is a cationic dye (Ex=390 nm, Em=530 nm) and an electron acceptor that can be used in dye-linked enzyme assays. Phenazine ethosulfate is an intermediate for detecting nitric oxide reducatase (Nors) activity with the presence of ascorbic acid[1][2][3].

REFERENCES

[1]. R Ghosh, et al. Phenazine ethosulfate as a preferred electron acceptor to phenazine methosulfate in dye-linked enzyme assays. Anal Biochem. 1979 Oct 15;99(1):112-7.

[2]. O.A.Ryazanova, et al. pH-Induced changes in electronic absorption and fluorescence spectra of phenazine derivatives. Spectrochim Acta A Mol Biomol Spectrosc. 2007 Apr;66(4-5):849-59.

[3]. Jessica H van Wonderen, et al. The nitric oxide reductase activity of cytochrome c nitrite reductase from Escherichia coli. J Biol Chem. 2008 Apr 11;283(15):9587-94.

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

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