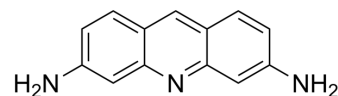


Proflavine

Cat. No.:	HY-B1741
CAS No.:	92-62-6
Molecular Formula:	C ₁₃ H ₁₁ N ₃
Molecular Weight:	209.25
Target:	Bacterial; Fluorescent Dye
Pathway:	Anti-infection; 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 : 125 mg/mL (597.37 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.7790 mL	23.8949 mL	47.7897 mL
	5 mM	0.9558 mL	4.7790 mL	9.5579 mL
	10 mM	0.4779 mL	2.3895 mL	4.7790 mL

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

BIOLOGICAL ACTIVITY

Description

Proflavine, an acridine dye, is a known DNA intercalating agent. Anti-microbial agent^[1]. Proflavine behaves as a pore blocker for K_{ir}3.2. Proflavine is a potential lead compound for K_{ir}3.2-associated neurological diseases^[2].

CUSTOMER VALIDATION

- EMBO Rep. 2022 Apr 11;e53932.
- bioRxiv. 2024 Apr 21.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Mansour K.Gatasheh, et al. Proflavine an acridine DNA intercalating agent and strong antimicrobial possessing potential properties of carcinogen. Karbala International

Journal of Modern Science. 2017 Dec, 3(4): 272-278.

[2]. Hitoshi Kawada, et al. Isolation of proflavine as a blocker of G protein-gated inward rectifier potassium channels by a cell growth-based screening system. Neuropharmacology. 2016 Oct;109:18-28.

[3]. Jiaxin Chen, et al. Determination of proflavine in rat whole blood without sample pretreatment by laser desorption postionization mass spectrometry. Anal Bioanal Chem. 2017 Apr;409(11):2813-2819.

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

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