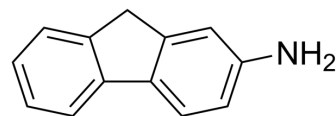


2-Aminofluorene

Cat. No.:	HY-W016433		
CAS No.:	153-78-6		
Molecular Formula:	C ₁₃ H ₁₁ N		
Molecular Weight:	181.24		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (551.75 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.5175 mL	27.5877 mL	55.1755 mL
	5 mM	1.1035 mL	5.5175 mL	11.0351 mL
	10 mM	0.5518 mL	2.7588 mL	5.5175 mL

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

BIOLOGICAL ACTIVITY

Description

2-Aminofluorene is a synthetic chemical insecticide. 2-Aminofluorene is a genotoxin. 2-Aminofluorene can be used in the research of DNA adduct structure, DNA repair, carcinogenesis, and mutagenesis^{[1][4]}.

In Vitro

2-Aminofluorene (0-100 μM, 1-5 days) produces a dose-related suppression of the antibody response to sheep erythrocytes (SRBC), DNP-Ficoll, and LPS^[2].

2-Aminofluorene (0-100 μM, 3 days, spleen cells) produces suppression on lymphoproliferative responses to LPS and Con A^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

2-Aminofluorene (60 mg/kg, i.p.) accumulates twice the 2-Aminofluorene-DNA adducts of slow acetylators (A/J) in rapid acetylator mice (C57BL/6J)^[3].

2-Aminofluorene (60 mg/kg, i.p.) forms significantly higher levels of DNA adducts in tumor-target organs than in non-target organs in acetylator congenic hamsters^[4].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Heflich RH, et al. Genetic toxicity of 2-acetylaminofluorene, 2-aminofluorene and some of their metabolites and model metabolites. *Mutat Res.* 1994 Oct;318(2):73-114.
- [2]. Kim BS, et al. Immunosuppressive effects of 2-acetylaminofluorene and 2-aminofluorene on murine splenocytes culture. *Drug Chem Toxicol.* 1989 Sep-Dec;12(3-4):297-311.
- [3]. Levy GN, et al. 2-Aminofluorene-DNA adduct formation in acetylator congenic mouse lines. *Carcinogenesis.* 1989 Apr;10(4):705-9.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA