2-Aminofluorene

MedChemExpress

Cat. No.:	HY-W01643	3	
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) Mass Solvent 10 mg 1 mg 5 mg Concentration Preparing 1 mM 5.5175 mL 27.5877 mL 55.1755 mL **Stock Solutions** 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.

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.

Product Data Sheet

 NH_2

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.

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