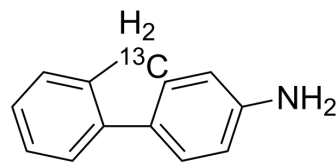


## 2-Aminofluorene-13C

<b>Cat. No.:</b>	HY-W016433S
<b>CAS No.:</b>	335081-08-8
<b>Molecular Formula:</b>	C <sub>12</sub> <sup>13</sup> CH <sub>11</sub> N
<b>Molecular Weight:</b>	182.23
<b>Target:</b>	DNA/RNA Synthesis
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	2-Aminofluorene- <sup>13</sup> C is the <sup>13</sup> C labeled 2-Aminofluorene[1]. 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[2][3][4].
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. 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. ;
- [3]. 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.
- [4]. 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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