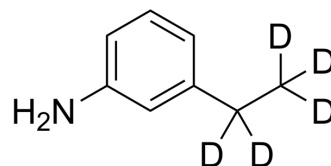


## 3-Ethylaniline-d<sub>5</sub>

Cat. No.:	HY-W010482S
CAS No.:	1643538-19-5
Molecular Formula:	C <sub>8</sub> H <sub>6</sub> D <sub>5</sub> N
Molecular Weight:	126.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Ethylaniline-d <sub>5</sub> is the deuterium labeled <a href="#">3-Ethylaniline</a> (HY-W010482). 3-Ethylaniline is metabolized in vivo to electrophilic intermediates that covalently bind to DNA and that adducts are formed in the DNA of bladder. 3-Ethylaniline can be used for the research of bladder cancer[1][2].
<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;53(2):211-223.
- [2]. Paul L Skipper, et al. DNA adduct formation by 2,6-dimethyl-, 3,5-dimethyl-, and 3-ethylaniline in vivo in mice. *Chem Res Toxicol.* 2006 Aug;19(8):1086-90.

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

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