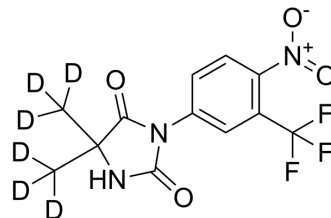


## Nilutamide-d<sub>6</sub>

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-13702S  |
| <b>CAS No.:</b>           | 1189477-66-4   |
| <b>Molecular Formula:</b> | C <sub>12</sub> H <sub>4</sub> D <sub>6</sub> F <sub>3</sub> N <sub>3</sub> O <sub>4</sub>   |
| <b>Molecular Weight:</b>  | 323.26   |
| <b>Target:</b>            | Androgen Receptor; Isotope-Labeled Compounds   |
| <b>Pathway:</b>           | Vitamin D Related/Nuclear Receptor; Others   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Nilutamide-d <sub>6</sub> (Nilandron-d6) is the deuterium labeled Nilutamide. Nilutamide (Nilandron) is a non-steroidal anti-androgen agent proposed in the research of metastatic prostatic carcinoma[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> .<br>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):211-216.
- [2]. Harris MG, et al. Nilutamide. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in prostate cancer. *Drugs Aging.* 1993 Jan-Feb;3(1):9-25.
- [3]. Ask K, et al. Metabolism of nilutamide in rat lung. *Biochem Pharmacol.* 2006 Jan 12;71(3):377-85.

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

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