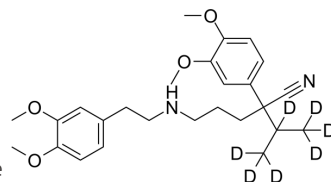


## Norverapamil-d7

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-135328S  |
| CAS No.:           | 263175-44-6   |
| Molecular Formula: | C <sub>26</sub> H <sub>29</sub> D <sub>7</sub> N <sub>2</sub> O <sub>4</sub>              |
| Molecular Weight:  | 447.62  |
| Target:            | Calcium Channel; P-glycoprotein; Drug Metabolite  |
| Pathway:           | Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease           |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Norverapamil-d7 ((±)-Norverapamil-d7) is a deuterium labeled Norverapamil ((±)-Norverapamil). Norverapamil, an N-demethylated metabolite of Verapamil, is a L-type calcium channel blocker and a P-glycoprotein (P-gp) function inhibitor<sup>[1]</sup> [2].

### REFERENCES

- [1]. Adams KN, et al. Verapamil, and its metabolite norverapamil, inhibit macrophage-induced, bacterial efflux pump-mediated tolerance to multiple anti-tubercular drugs. *J Infect Dis.* 2014 Aug 1;210(3):456-66.
- [2]. Pauli-Magnus C, et al. Characterization of the major metabolites of verapamil as substrates and inhibitors of P-glycoprotein. *J Pharmacol Exp Ther.* 2000 May;293(2):376-82.

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

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