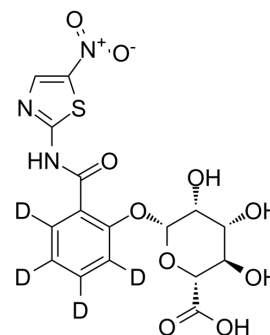


## Tizoxanide-d4 glucuronide

Cat. No.:	HY-136307S
Molecular Formula:	C <sub>16</sub> H <sub>11</sub> D <sub>4</sub> N <sub>3</sub> O <sub>10</sub> S
Molecular Weight:	445.39
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tizoxanide glucuronide-D4 is the deuterium labeled Tizoxanide glucuronide. Tizoxanide glucuronide is the metabolite of Nitazoxanide (HY-B0217) and is cell-permeable to inhibit asexual and sexual stages development of parasite <i>C. parvum</i> <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC50: parasite <sup>[1]</sup>
<b>In Vitro</b>	Tizoxanide glucuronide (1-50 µg/ml; 46 hours) has effects on parasite development of <i>Cryptosporidium parvum</i> in HCT-8 cells. It exhibits MIC <sub>50</sub> values of 2.2 µg/ml; 45.2 µg/ml; 11.7 µg/ml and 2.8 µg/ml in a sexual and sexual stages, sporozoite stage, asexual stages and sexual stages, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. G Gargala , et al. Efficacy of Nitazoxanide, Tizoxanide and Tizoxanide Glucuronide Against *Cryptosporidium Parvum* Development in Sporozoite-Infected HCT-8 Enterocytic Cells. *J Antimicrob Chemother.* 2000 Jul;46(1):57-60.

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

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