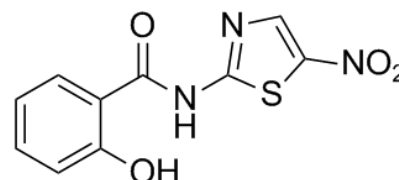


**Product Name** : Tizoxanide  
**Cat. No.** : PC-43149  
**CAS No.** : 173903-47-4  
**Molecular Formula** : C<sub>10</sub>H<sub>7</sub>N<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 265.2453  
**Target** : HBV  
**Solubility** : DMSO: ≥ 38 mg/mL



### Biological Activity

Tizoxanide is the main metabolite of nitazoxanide, which is a synthetic nitrothiazolyl-salicylamide derivative and an **antiprotozoal** agent against anaerobic bacteria, protozoa, and a range of viruses.

Tizoxanide shows anti-**HIV-1** activities and potent inhibition of both **HBV** and **HCV** replication with values EC<sub>50</sub> of 0.46 μM and 0.15 μM, respectively.

Tizoxanide also exerts anti-inflammatory effects by inhibiting the production of pro-inflammatory cytokines and suppressing of the activation of the NF-κB and the MAPK signaling pathways in LPS-treated macrophage cells.

### References

Dubreuil L, et al. *Antimicrob Agents Chemother.* 1996 Oct;40(10):2266-70.

Gargala G, et al. *J Antimicrob Chemother.* 2000 Jul;46(1):57-60.

Adagu IS, et al. *J Antimicrob Chemother.* 2002 Jan;49(1):103-11.

Pankuch GA, et al. *Antimicrob Agents Chemother.* 2006 Mar;50(3):1112-7.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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