

Product Name:	Tizoxanide
Product Number:	T127
CAS Number:	173903-47-4
Molecular Formula:	C ₁₀ H ₇ N ₃ O ₄ S
Molecular Weight:	265.25
Form:	Powder
Appearance:	White to off-white powder
Solubility:	Slightly soluble in DMSO and DMF.
Source:	Synthetic
Storage Conditions:	-20°C
Description:	Tizoxanide is a metabolite of Nitazoxanide. It is an antiparasitic agent that can inhibit anaerobic bacteria, protozoa, and a range of viruses including hepatitis B and C.
Mechanism of Action:	Tizoxanide is the active metabolite Nitazoxanide. This anthelmintic agent is able to inhibit viral replication, including hepatitis B and C viruses.
Spectrum:	Tizoxanide is active against anaerobic bacteria, protozoa, and a range of viruses.
Microbiology Applications	Tizoxanide is effective against parasites (<i>Leishmania mexicana</i> , <i>Trypanosoma cruzi</i>), influenza A, hepatitis B and C.
References:	Korba BE et al (2008) Nitazoxanide, tizoxanide and other thiazolides are potent inhibitors of hepatitis B virus and hepatitis C virus replication. Antiviral. Res. 77(1):56-63 Senkowski W et al (2015) Three-dimensional cell culture-based screening identifies the anthelmintic drug Nitazoxanide as a candidate for treatment of colorectal cancer. Mol Cancer Ther 14(6):1504-1516 Zhao Z et al (2010) the pharmacokinetics of nitazoxanide active metabolite (tizoxanide) in goats and its protein binding ability in vitro. J. Vet. Pharmacol. Ther. 33(2):147-153