

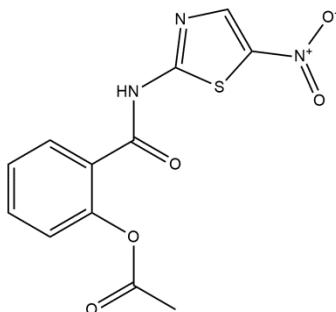
Nitazoxanide

06/20

ALTERNATE NAME: Alinia; Daxon; [2-[(5-nitro-1,3-thiazol-2-yl)carbamoyl]phenyl] acetate; Benzamide, 2-(acetyloxy)-N-(5-nitro-2-thiazolyl)-; N-(5-Nitro-2-thiazolyl)salicylamide acetate (ester); acetic acid [2-[[[(5-nitro-2-thiazolyl)amino]-oxomethyl]phenyl] ester; NTZ; [2-[(5-nitro-1,3-thiazol-2-yl)carbamoyl]phenyl] ethanoate

CATALOG #: B3041-50 50 mg
B3041-250 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₂H₉N₃O₅S

MOLECULAR WEIGHT: 307.28

CAS NUMBER: 55981-09-4

APPEARANCE: White to Off-white powder

PURITY: ≥98%

SOLUBILITY: ~20 mg/ml in DMSO
~15 mg/ml in DMF

DESCRIPTION: Nitazoxanide is a nitrothiazole benzamide with anti-parasitic and anti-viral activity. It inhibits pyruvate-ferredoxin oxidoreductase in protozoa and anaerobic bacteria. It inhibits many anaerobes *in vitro*, with MIC₉₀ values of 0.06 µg/ml-4 µg/ml. It inhibits different strains of influenza A virus replication with EC₅₀ values of 1, 0.5, and 1 µg/ml respectively. It is used to treat enteritis caused by *Cryptosporidium parvum* and *Giardia lamblia* in children and adults. It is in clinical trials for treatment against COVID-19.

STORAGE TEMPERATURE: -20°C. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Fox, L.M., Saravolatz, L.D. Nitazoxanide: A new thiazolide antiparasitic agent. Clin Infect Dis. 40 1173-80 (2005).
2. Rossignol, J.F., Frazia, S.L., Chiappa, L., et al. Thiazolides, a new class of anti-influenza molecules targeting viral hemagglutinin at the post-translational level. J Biol Chem. 284(43): 29798-29808 (2009).

RELATED PRODUCTS:

Remdesivir (Cat. No. B2997)
 Acyclovir (Cat. No. 2200)
 Glecaprevir (Cat. No. B2347)
 Rilpivirine hydrochloride (Cat. No. B2427)
 N4-Hydroxycytidine (Cat. No. B3039)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**