

Product Data Sheet

Product Name: Oxfendazole

Cat. No.: GC14611

Chemical Properties

Cas. No. 53716-50-0

Chemical Name methyl N-[6-(benzenesulfinyl)-1H-benzimidazol-2-yl]carbamate

SMILES COC(=O)NC1=NC2=C(N1)C=C(C=C2)S(=O)C3=CC=CC=C3

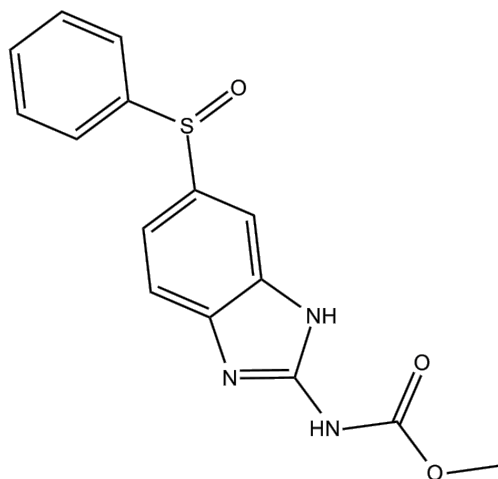
Formula $C_{15}H_{13}N_3O_3S$ M.Wt 315.35

Solubility $\geq 15.75\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Oxfendazole is the sulfoxide form of fenbendazole which is a broad spectrum benzimidazole anthelmintic. Target: Antiparasitic. Oxfendazole is the sulfoxide form of fenbendazole, a broad spectrum benzimidazole anthelmintic. Its main use is for protecting livestock against roundworm, strongyles and pinworms.[1]. Pigs in the treated group received Oxfendazole orally at 30 mg/kg dose. At five days post-treatment, animals were sacrificed and the clinical efficacy of the Oxfendazole

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

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treatment was established following the currently available WAAVP guidelines for a controlled efficacy test. None of the animals involved in this experiment showed any adverse events during the study. Oxfendazole treatment given as a single 30 mg/kg oral dose showed a 100% efficacy against all the nematode parasites present in the three experiments. In conclusion, under the current experimental conditions, Oxfendazole orally administered to naturally parasitized piglets at a single dose of 30 mg/kg was safe and highly efficacious (100%) against adult stages of *A. suum*, *Oesophagostomum* spp., *T. suis* and *Metastrongylus* spp [1].

References:

- [1]. <http://www.chemicaland21.com/lifescience/phar/OXFENDAZOLE.htm>
[2]. Alvarez, L., et al., Efficacy of a single high oxfendazole dose against gastrointestinal nematodes in naturally infected pigs. *Veterinary parasitology*, 2013. 194(1): p. 70-74.

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