

Product Data Sheet

Product Name: Albendazole

Cat. No.: GC13593

Chemical Properties

Cas. No. 54965-21-8

Chemical Name methyl N-(6-propylsulfanyl-1H-benzimidazol-2-yl)carbamate

SMILES CCCSC1=CC2=C(C=C1)N=C(N2)NC(=O)OC

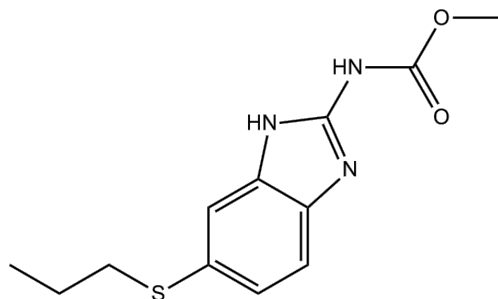
Formula $C_{12}H_{15}N_3O_2S$ M.Wt 265.33

Solubility $\geq 8.75\text{mg/mL}$ 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

Albendazole is a member of the benzimidazole compounds used as a drug indicated for the treatment of a variety of worm infestations. Target: Antiparasitic. Albendazole, marketed as Albenza (United States), Eskazole, Zentel, Andazol and Alworm, is a benzimidazole drug used for the treatment of a variety of parasitic worm infestations. Although this use is widespread in the United States, the U.S. Food and Drug Administration (FDA) has not approved albendazole for this indication. It is marketed by Amedra Pharmaceuticals. Albendazole was first discovered at the SmithKline Animal Health Laboratories in 1972. It is a broad spectrum anthelmintic, effective against roundworms, tapeworms, and flukes of domestic animals and humans. Albendazole has been used

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

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as an anthelmintic and for control of flukes in a variety of animal species, including cattle, sheep, goats, swine, camels, dogs, cats, elephants, poultry and others. In many countries, it is very commonly used for ruminant livestock. For use in livestock, albendazole is marketed by Zoetis (formerly Pfizer Animal Health) in numerous countries (including the United States and Canada) as Valbazen in oral suspension and paste formulations; by Interchemie in the Netherlands and elsewhere as Albenol-100; by Channelle Animal Health Ltd. in the United Kingdom as Albex; by Ravensdown in New Zealand as Albendazole; etc. Although most formulations are administered orally, Ricomax (ricobendazole, or albendazole sulfoxide) is administered by subcutaneous injection.

References:

[1]. Theodorides VJ, et al. Anthelmintic activity of albendazole against liver flukes, tapeworms., lung and gastrointestinal roundworms. *Experientia*. 1976 Jun 15;32(6):702-3.

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