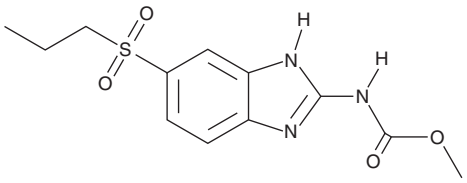
PRODUCT INFORMATION

Albendazole sulfone

Item No. 35445

CAS Registry No.: 75184-71-3
Formal Name: N-[6-(propylsulfonyl)-1H-benzimidazol-2-yl]-carbamic acid, methyl ester
Synonyms: ABZ-SO_2, ABZ-SOO
MF: $C_{12}H_{15}N_3O_4S$
FW: 297.3
Purity: ≥98%
UV/Vis.: λ_{max}: 223 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Albendazole sulfone is supplied as a solid. A stock solution may be made by dissolving the albendazole sulfone in the solvent of choice, which should be purged with an inert gas. Albendazole sulfone is soluble in methanol and DMSO.

Description

Albendazole sulfone is an active metabolite of the benzimidazole anthelmintic albendazole (Item No. 23705).[1,2] It inhibits spore formation of *E. hellem*, *E. cuniculi*, and *E. intestinalis in vitro* (IC_{90}s = <0.0001, <0.001, and <0.1 µg/ml, respectively).[2]

References

1. Baliharová, V., Velík, J., Fimanová, K., *et al.* Inhibitory effect of albendazole and its metabolites on cytochromes P450 activities in rat and mouflon *in vitro*. *Pharmacol. Rep.* **57(1)**, 97-106 (2005).
2. Ridoux, O. and Drancourt, M. In vitro susceptibilities of the microsporidia *Encephalitozoon cuniculi*, *Encephalitozoon hellem*, and *Encephalitozoon intestinalis* to albendazole and its sulfoxide and sulfone metabolites. *Antimicrob. Agents and Chemother.* **42(12)**, 3301-3303 (1998).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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