LKT Laboratories, Inc.

Thiabendazole

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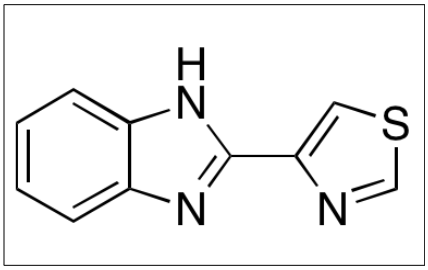
Product Information

Product ID T2930
CAS No. 148-79-8
Chemical Name 2-(4-Thiazolyl)-1H-benzimidazole

Synonym MK-360, Thibenzole, Equizole, Mertect, Storite, TBZ, Tecto.



Formula $C_{10}H_7N_3S$
Formula Wt. 201.25
Melting Point 300-303°C
Purity ≥98%
Solubility Soluble in DMF and DMSO. Slightly soluble in alcohols and esters.

Bulk quanitites available upon request

Product ID	Size
T2930	10 g
T2930	100 g
T2930	500 g

Store Temp Ambient
Ship Temp Ambient

Description Thiabendazole is a benzimidazole antifungal that exhibits additional antibiotic activity as well as anticancer chemotherapeutic and anti-angiogenic activities. Thiabendazole binds tubulin and acts as a spindle poison, altering microtubule polymerization and inhibiting growth of *Aspergillus*. Thiabendazole also displays nematocidal activity against *Strongyloides* and anti-helminthic activity against *Haemonchus*. This compound inhibits proliferation, angiogenesis, and VEGF expression in melanoma cells and prevents tumor growth in vivo.

References

Zhang J, Zhao C, Gao Y, et al. Thiabendazole, a well-known antifungal drug, exhibits anti-metastatic melanoma B16F10 activity via inhibiting VEGF expression and inducing apoptosis. Pharmazie. 2013 Dec;68(12):962-8. PMID: 24400443.

Satou T, Koga M, Koike K, et al. Nematocidal activities of thiabendazole and ivermectin against the larvae of Strongyloides ratti and S. venezuelensis. Vet Parasitol. 2001 Aug 31;99(4):311-22. PMID: 11511418.

Crebelli R, Conti G, Conti L, et al. In vitro studies with nine known or suspected spindle poisons: results in tests for chromosome malsegregation in Aspergillus nidulans. Mutagenesis. 1991 Mar;6(2):131-6. PMID: 2056914.

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