

Product Name:	Mebendazole
Product Number:	M082
CAS Number:	31431-39-7
Molecular Formula:	C ₁₆ H ₁₃ N ₃ O ₃
Molecular Weight:	295.29
Appearance:	White to off-white powder
Description:	<p>Mebendazole is a broad-spectrum anthelmintic used as a treatment for roundworms. More recently it has been investigated as an anti-cancer agent, showing promise <i>in vitro</i> and in mouse models.</p> <p>Mebendazole is soluble in formic acid and practically insoluble in water, ethanol, and ether.</p>
Mechanism of Action:	Like other antiparasitic benzimidazoles, mebendazole inhibits tubulin polymerization. The lack of transportation in the cell causes a build-up of waste and a depletion of energy.
References:	<p>Pantziarka, P., Bouche, G., Meheus, L., Sukhatme, V., & Sukhatme, V. P. (2014). Repurposing Drugs in Oncology (ReDO)—mebendazole as an anti-cancer agent. <i>Ecancermedicalscience</i>, 8, 443. http://doi.org/10.3332/ecancer.2014.443</p> <p>Vercruysse, Jozef, DVM, and Edwin Claerebout, DVM. "Mechanisms of Action of Anthelmintics." The Merck Veterinary Manual. Merck & Co., Inc., 2014. Web.</p>