

# Parbendazole

Catalog No: tcsc0035171



## Available Sizes

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

14255-87-9

**Formula:**

$C_{13}H_{17}N_3O_2$

**Pathway:**

Cell Cycle/DNA Damage;Cytoskeleton

**Target:**

Microtubule/Tubulin;Microtubule/Tubulin

**Purity / Grade:**

>98%

**Solubility:**

H2O :

**Alternative Names:**

SKF 29044

**Observed Molecular Weight:**

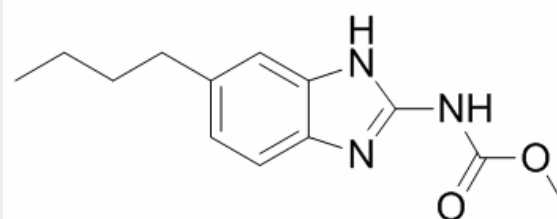
247.29

## Product Description

Parbendazole is a potent inhibitor of **microtubule** assembly, destabilizes tubulin, with an **EC<sub>50</sub>** of 8.79 nM, and exhibits a broad-spectrum anthelmintic activity.

IC<sub>50</sub> & Target: EC<sub>50</sub>: 8.79 nM (tubulin)<sup>[1]</sup>

***In Vitro:*** Parbendazole is a tubulin destabilizer, with an EC<sub>50</sub> of 8.79 nM, and can induce DNA damage<sup>[1]</sup>. Parbendazole (2-10 μM) inhibits the assembly of microtubules dose-dependently, with an IC<sub>50</sub> of 3 μM. Parbendazole (2-20 μM)-treated cells show a complete absence of microtubules in Vero cells<sup>[2]</sup>. Parbendazole (up to 10 μM) inhibits the growth of CLd-AXE myxamoebae. Parbendazole (2-5 μM) potently inhibits tubulin purified from the wild-type myxamoebae<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!