

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:

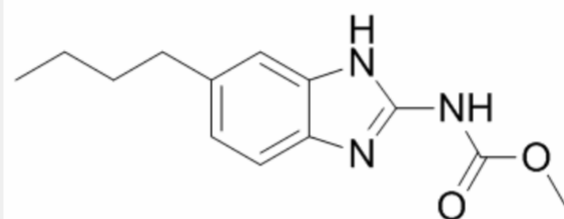
247.29

Product Description

Parbendazole is a potent inhibitor of **microtubule** assembly, destabilizes tubulin, with an **EC₅₀** of 8.79 nM, and exhibits a broad-spectrum anthelmintic activity.

IC50 & Target: EC50: 8.79 nM (tubulin)^[1]

In Vitro: Parbendazole is a tubulin destabilizer, with an EC₅₀ of 8.79 nM, and can induce DNA damage^[1]. Parbendazole (2-10 μM) inhibits the assembly of microtubules dose-dependently, with an IC₅₀ of 3 μM. Parbendazole (2-20 μM)-treated cells show a complete absence of microtubules in Vero cells^[2]. 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^[3].



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