Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Triclabendazole

Catalog No: tcsc2859

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
68786-66-3

Formula:
$C_{14}H_9Cl_3N_2OS$

Pathway:
Cell Cycle/DNA Damage;Cytoskeleton

Target:
Microtubule/Tubulin;Microtubule/Tubulin

Purity / Grade:
>98%

Solubility:
DMSO : 100 mg/mL (278.04 mM; Need ultrasonic)

Alternative Names:
CGA89317

Observed Molecular Weight:
359.66

Product Description

Triclabendazole(CGA89317) is a benzimidazole, it binds to tubulin impairing intracellular transport mechanisms and interferes with protein synthesis.

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Target: Microtubule/Tubulin

Triclabendazole treatment produces percentage decreases of the fluke egg output by 15.3%, 4.3% and 36.6%, respectively, in sheep, dairy cows and heifers, these results indicate the presence of TCBZ-resistant Fasciola hepatica in sheep and cattle on this farm [1]. Triclabendazole sulphoxide (50 mg/mL) results in extensive damage to the tegument of triclabendazole-susceptible F. hepatica, whereas triclabendazole-resistant flukes shows only localized and relatively minor disruption of the tegument covering the spines [2].

Triclabendazole is metabolized into a number of compounds, depending on the route of administration, plasma levels peak at 18-24 hours (Triclabendazole sulphoxide) and 36-48 hours (Triclabendazole sulphone), neither Triclabendazole nor any toher metabolites can be detected in plasma. Triclabendazole sulphoxide blocks the transport of secretory bodies from the cell body to the tegumental surface, the block occurs at the site of their formation by the Golgi complex in the cell body, in their movement through the cytoplasmic connections to the syncytium, and in their movement from the base to the apex of the syncytium. Triclabendazole binds to the colchicine binding site on the β-tubulin molecule and this has been used at the basis for evaluating the relative acitvity of Triclabendazole [3].