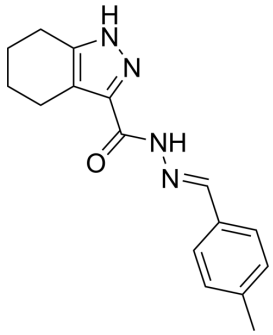
Suprafenacine

Cat. No.:	HY-118748
CAS No.:	1477482-50-0
Molecular Formula:	$C_{16}H_{18}N_4O$
Molecular Weight:	282.34
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Suprafenacine is a cell permeable, tubulin-destabilizing molecule which bind microtubules at the colchicine-binding site and inhibit polymerization. Suprafenacine can induce G2/M cell cycle arrest and apoptosis, and can be used for cancer research[1].
In Vitro	Suprafenacine (10 μM, 24 h) causes a complete collapse of all the cells at the G1 phase and increases the G2/M population of the Hela cells while 7 h of pretreatment induces rapid apoptosis in proliferating Hela cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Suprafenacine (20 mg/kg, i.p., every 3 days for 9 days) suppresses 40% of tumor mass in HCT15 tumor bearing SCID mice compared with control mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Choi BH, et al. Suprafenacine, an indazole-hydrazide agent, targets cancer cells through microtubule destabilization. PLoS One. 2014 Oct 29;9(10):e110955.

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