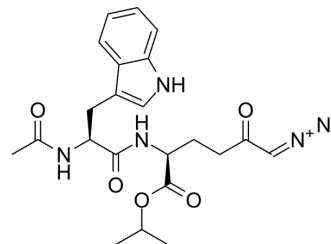


Sirpiglenastat

Cat. No.:	HY-132832
CAS No.:	2079939-05-0
Molecular Formula:	C ₂₂ H ₂₇ N ₅ O ₅
Molecular Weight:	441.48
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sirpiglenastat (DRP-104) is a broad acting glutamine antagonist. Sirpiglenastat has anticancer effects by directly targeting tumor metabolism and simultaneously inducing a potent antitumor immune response ^{[1][2]} .
In Vitro	Sirpiglenastat (DRP-104) treatment shows broad immune cell modulation effects including increased T, NK, and macrophages. Sirpiglenastat decreases pro-tumorigenic cytokines such as VEGF and KC (IL-8) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CT26 bearing mice treated with Sirpiglenastat (DRP-104) (0.5 mg/kg; s.c.; once a day; for 5 days) shows tumor growth inhibition at day 12 of 90%. Median survival days are 36 days ^[1] . Sirpiglenastat (0.5 mg/kg; s.c) treatment significantly inhibits tumor growth in the H22 model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	CT26 bearing mice ^[1]
Dosage:	0.5 mg/kg
Administration:	s.c.; once a day; for 5 days
Result:	Showed tumor growth inhibition in mice.

REFERENCES

[1]. Yumi Yokoyama, et al. DRP-104, a novel broad acting glutamine antagonist, induces distinctive immune modulation mechanisms and synergistic efficacy in combination with immune checkpoint blockade. *J Immunother Cancer*. 2019 Nov 6;7(Suppl 1):282.

[2]. Yumi Yokoyama, et al. DRP-104, a broad acting glutamine antagonist, synergizes with immune checkpoint blockade in vivo. *Cancer Res* 2021;81(13_Suppl):Abstract nr 1563.

Caution: Product has not been fully validated for medical applications. For research use only.

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