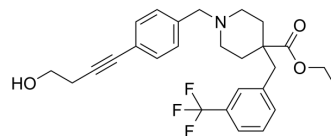


Soporidine

Cat. No.:	HY-114800
CAS No.:	1060376-43-3
Molecular Formula:	C ₂₇ H ₃₀ F ₃ NO ₃
Molecular Weight:	473.53
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Soporidine is an antagonist of germination of the parasitic plant <i>Striga hermonthica</i> . Soporidine specifically inhibits a <i>S. hermonthica</i> strigolactone receptor and inhibits the parasite's germination ^[1] . Soporidine is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	Soporidine binds to the AtHTL receptor and to a key Strigolactone (SL) receptor in <i>S. hermonthica</i> , inhibiting <i>Striga</i> germination in the presence of SLs. Soporidine could serve as the basis for the development of Strigolactone (SL) antagonist to combat <i>Striga</i> infestations. Soporidine is a potent antagonist in GR24-dependent <i>Arabidopsis</i> germination assay and shows no enhancement of SL signaling mutant phenotypes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Duncan Holbrook-Smith, et al. Small-molecule antagonists of germination of the parasitic plant *Striga hermonthica*. *Nat Chem Biol*. 2016 Sep;12(9):724-9.

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

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