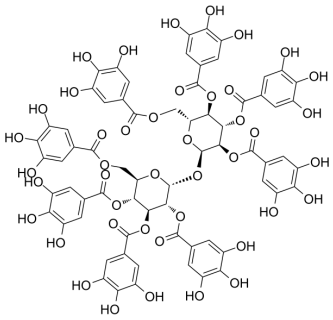
Trypanothione synthetase-IN-3

Cat. No.:	HY-151151
CAS No.:	1314875-96-1
Molecular Formula:	$C_{68}H_{54}O_{43}$
Molecular Weight:	1559.13
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trypanothione synthetase-IN-3 is a noncompetitive mixed hyperbolic Trypanothione synthetase (TryS) inhibitor (K_i: 0.8 μM). Trypanothione synthetase-IN-3 can be used in the study of parasites, such as L. infantum[1].
IC_{50} & Target	Trypanothione synthetase (TryS)[1]
In Vitro	Trypanothione synthetase-IN-3 (30 min) displays noncompetitive inhibitory behavior against Li TryS with IC_{50} values of 2 μM -5.6 μM (determined by various substrates)[1]. Trypanothione synthetase-IN-3 (24 h) inhibits proliferation of L. infantum axenic amastigotes with an EC_{50} value of 43.7 μM [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mercedes Alcón-Calderón, et al. Identification of L. infantum trypanothione synthetase inhibitors with leishmanicidal activity from a (non-biased) in-house chemical library. European Journal of Medicinal Chemistry, 2022, 114675.

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