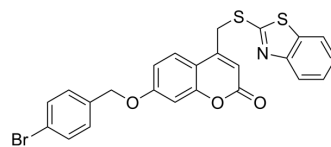


Antileishmanial agent-27

Cat. No.:	HY-163457
Molecular Formula:	C ₂₄ H ₁₆ BrNO ₃ S ₂
Molecular Weight:	510.42
Target:	Aminoacyl-tRNA Synthetase; Parasite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antileishmanial agent-27 (compound 7j) is a benzothiazolo-coumarin derivative. Antileishmanial agent-27 is a competitive inhibitor of arginyl-tRNA synthetases (ArgRSs). Antileishmanial agent-27 shows selectivity toward ArgRS of <i>Leishmania donovani</i> (LdArgRS) than its human counterpart (HsArgRS), with IC ₅₀ values of 1.2 and 19 μM, respectively. Antileishmanial agent-27 possesses high pharmacokinetic properties ^[1] .
IC₅₀ & Target	Leishmania
In Vitro	Antileishmanial agent-27 (compound 7j) exhibits low cytotoxicity toward murine macrophage RAW 264.7, with an IC ₅₀ value of 210±17 μM ^[1] . Antileishmanial agent-27 stabilizes LdArgRS better than L-Arg and ATP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nasim F, et al. Unraveling the peculiarities and development of novel inhibitors of leishmanial arginyl-tRNA synthetase. FEBS J. 2024 Mar 25.

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

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