### **Product** Data Sheet

## Antileishmanial agent-16

Cat. No.:HY-149957CAS No.:2934738-41-5Molecular Formula: $C_{27}H_{37}N_{5}O_{4}$ Molecular Weight:495.61

Target: Parasite

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

# No. Company No.

### **BIOLOGICAL ACTIVITY**

Description	Antileishmanial agent-16 (compound 14c) is an anti-Leishmania agent. Antileishmanial agent-16 has superior anti-
	Leishmania major promastigotes activity (IC $_{50}$ = 0.59 $\mu$ M) and anti-Leishmania major amastigotes activity (IC $_{50}$ = 0.81 $\mu$ M).
	Antileishmanial agent-16 has good safety to mammalian cells (VERO cells) $^{[1]}$ .

IC<sub>50</sub> & Target Leishmania<sup>[1]</sup>.

In Vitro

Antileishmanial agent-16 (0-20  $\mu$ M; 24 h) shows superior activity to againsts L. Major promastigote and amastigote forms, with IC<sub>50</sub>s of 0.59 and 0.81  $\mu$ M, respectively<sup>[1]</sup>.

Antileishmanial agent-16 shows high selectivity towards L. amastigote as well as their safety on mammalian cells (VERO cells), with an SI value of  $311.4^{[1]}$ .

Selectivity indice (SI): the ratio between the in vitro cytotoxic activity ( $CC_{50}$  in  $\mu M$ ) and the antileishmanial activity against amastigote form (unit of  $IC_{50}$ :  $\mu M$ ).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay<sup>[1]</sup>

Cell Line:	Promastigote and amastigote forms of Leishmania major strain
Concentration:	0-20 μΜ
Incubation Time:	24 h
Result:	Inhibited L. Major promastigote and amastigote forms, with IC $_{\!50}\!$ s of 0.59 and 0.81 $\mu\text{M},$ respectively.

#### **REFERENCES**

[1]. Hassan NW, et al. Modulating leishmanial pteridine metabolism machinery via some new coumarin-1,2,3-triazoles: Design, synthesis and computational studies. Eur J Med Chem. 2023 May 5;253:115333.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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