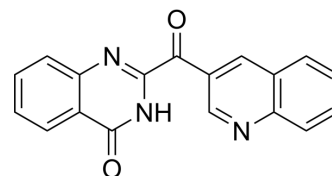


Luotonin F

Cat. No.:	HY-118726
CAS No.:	244616-85-1
Molecular Formula:	C ₁₈ H ₁₁ N ₃ O ₂
Molecular Weight:	301.3
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Luotonin F is an alkaloid found in the aerial parts of the <i>P. nigellastrum</i> Bunge. Luotonin F shows cytotoxic activity against mouse leukemia P-388 cells by inhibiting human topoisomerase II ^{[1][2]} .
IC ₅₀ & Target	Topoisomerase II
In Vitro	Luotonin F shows cytotoxic activity against mouse leukemia P-388 cells (IC ₅₀ : 2.3 µg/mL) ^[1] . Luotonin F (25 µM) inhibits human topoisomerase II ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Liang JL, et al. Recent advances in the studies on luotonins. *Molecules*. 2011 Jun 14;16(6):4861-83.
- [2]. Ma Z, et al. Novel quinazoline-quinoline alkaloids with cytotoxic and DNA topoisomerase II inhibitory activities. *Bioorg Med Chem Lett*. 2004 Mar 8;14(5):1193-6.

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

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