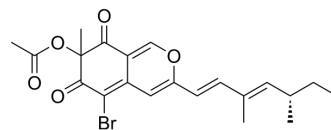


Azaphilone-9

Cat. No.:	HY-124844
CAS No.:	1448460-87-4
Molecular Formula:	C ₂₁ H ₂₃ BrO ₅
Molecular Weight:	435.31
Target:	HuR
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Azaphilone-9 (AZA-9) is an inhibitor of HuR-ARE RNA interaction (IC ₅₀ =1.2 μM) by binding RNA-binding protein Hu antigen R (HuR). The HuR-RNA interactions stabilize many oncogenic mRNAs in tumors. Thus Azaphilone-9 potentially inhibit cancer cell growth and progression ^[1] .
IC₅₀ & Target	HuR-ARE ^[1]
In Vitro	Azaphilone-9 is a HuR-RNA inhibitor. However HuR binds and stabilizes the AREs of the oncogene Musashi1 (Msi1) and anti-apoptotic proteins, Bcl2 and XIAP, thereby up-regulating their expression and activating the Wnt/Notch signaling pathway and inhibiting apoptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kaur K, et al. The fungal natural product azaphilone-9 binds to HuR and inhibits HuR-RNA interaction in vitro. PLoS One. 2017 Apr 17;12(4):e0175471.

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

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