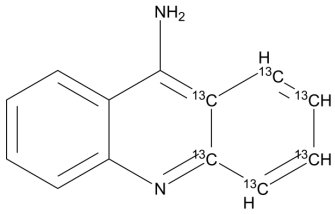
9-Aminoacridine-$^{13}C_6$

Cat. No.:	HY-B1422S
Molecular Formula:	$C_7{}^{13}C_6H_{10}N_2$
Molecular Weight:	200.19
Target:	Bacterial; HIV; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

9-Aminoacridine-13C6 is the ^{13}C-labeled 9-Aminoacridine(HY-B1422). 9-Aminoacridine, a fluorescent probe, acts as an indicator of pH for quantitative determination of transmembrane pH gradients (inside acidic). 9-Aminoacridine is an antimicrobial. 9-Aminoacridine exerts its antimicrobial activity by interacting with specific bacterial DNA and disrupting the proton motive force in K. pneumoniae. 9-Aminoacridine is a HIV-1 inhibitor and inhibits HIV LTR transcription highly dependent on the presence and location of the amino moiety. 9-Aminoacridine inhibits virus replication in HIV-1 infected cell lines. 9-Aminoacridine is used as a Rifampin (RIF; HY-B0272) adjuvant for the multidrug-resistant K. pneumoniae infections[1][2][3].

REFERENCES

[1]. Grzesiek S,et al. The 'delta pH'-probe 9-aminoacridine: response time, binding behaviour and dimerization at the membrane. Biochim Biophys Acta. 1988 Mar 3;938(3):411-24.

[2]. Guendel I, et al. 9-Aminoacridine inhibition of HIV-1 Tat dependent transcription. Virol J. 2009 Jul 24;6:114.

[3]. She P, et al. Repurposing 9-Aminoacridine as an Adjuvant Enhances the Antimicrobial Effects of Rifampin against Multidrug-Resistant Klebsiella pneumoniae. Microbiol Spectr. 2023 Jun 15;11(3):e0447422.

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