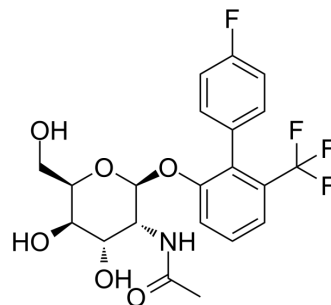


AM4085

Cat. No.:	HY-163291
Molecular Formula:	C ₂₁ H ₂₁ F ₄ NO ₆
Molecular Weight:	459.39
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AM4085 is an orally active Antagonist for FmlH with an IC ₅₀ of 0.19 μM. AM4085 reveals metabolic stability in mouse liver microsomes and blood plasma ^[1] .																
In Vivo	AM4085 reveals pharmacokinetic profiles with good oral bioavailability in C3H/HeN mice ^[1] : Pharmacokinetic Analysis of AM4085 in C3H/HeN mice ^[1]																
	route	Dose (mg/kg)	C ₀ (ng/mL)	C _{max} (ng/mL)	T _{1/2} (h)	Vd _{ss} (L/kg)	CL (mL/min/kg)	T _{last} (h)	AUC _{0-last} (ng·h/mL)	AUC _{0-inf} (ng·h/mL)	MRT _{0-last} (h)	MRT _{0-inf} (h)	MRTE _{0-inf} (%)	AUC _{Extra} (%)	CA _{Extra} (%)	UMC (%)	F (%)
	iv	3	4427	-	1.47	1.42	13.6	8.0	3662	3736	1.59	1.75	1.90	10.8	-	-	-
	po	10	-	1483	1.92	-	-	8.0	6070	6564	3.18	3.75	7.55	21.6	52.7	-	-
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.																

REFERENCES

[1]. Maddirala AR, et al., Discovery of Orally Bioavailable FmlH Lectin Antagonists as Treatment for Urinary Tract Infections. J Med Chem. 2024 Feb 3.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA