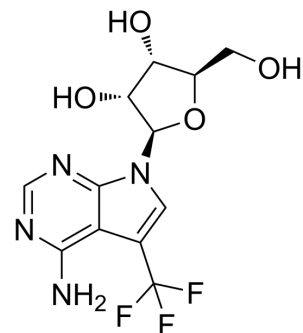


Trifluoromethyl-tubercidin

Cat. No.:	HY-156048
CAS No.:	1854086-05-7
Molecular Formula:	C ₁₂ H ₁₃ F ₃ N ₄ O ₄
Molecular Weight:	334.25
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.34 mg/mL (9.99 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9918 mL	14.9589 mL	29.9177 mL
	5 mM	0.5984 mL	2.9918 mL	5.9835 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Trifluoromethyl-tubercidin (TFMT) is a 2'-O-ribose methyltransferase 1 (MTr1) inhibitor through interaction at its S-adenosyl-L-methionine binding pocket to restrict influenza virus replication^[1].

REFERENCES

[1]. Yuta Tsukamoto, et al. Inhibition of cellular RNA methyltransferase abrogates influenza virus capping and replication. *Science*. 2023 Feb 10;379(6632):586-591.

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

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