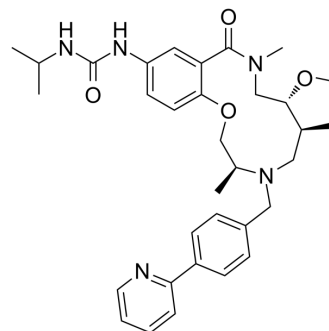


BRD-K98645985

Cat. No.:	HY-114268		
CAS No.:	1357647-78-9		
Molecular Formula:	C ₃₃ H ₄₃ N ₅ O ₄		
Molecular Weight:	574		
Target:	HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (435.54 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	1.7422 mL	8.7108 mL
		5 mM	0.3484 mL	1.7422 mL
		10 mM	0.1742 mL	0.8711 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.62 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	BRD-K98645985 is a BAF (mammalian SWI/SNF) transcriptional repression inhibitor with an EC ₅₀ of ~2.37 μM. BRD-K98645985 binds ARID1A-specific BAF complexes, prevents nucleosomal positioning, and potently reverses HIV-1 latency, without T cell activation or toxicity ^[1] .	
IC₅₀ & Target	BAF transcriptional repression 2.37 μM (EC ₅₀)	HIV-1

In Vitro

BRD-K98645985 (30 μ M; 18 hours) treatment shows a 5-fold increase in Bmi1, 2.6-fold increase in Ring1, and 3.3-fold decrease in Fgf4^[1].

BRD-K98645985 treatment shows a concentration dependent latency reversal in J-Lat T-cell line models. BRD-K98645985 can be combined with other LRAs to improve reservoir targeting^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2022 Jul;607(7917):135-141.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Marian CA, et al. Small Molecule Targeting of Specific BAF (mSWI/SNF) Complexes for HIV Latency Reversal. Cell Chem Biol. 2018 Dec 20;25(12):1443-1455.e14.

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

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