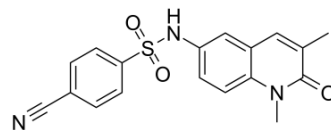


NI-42

Cat. No.:	HY-101121
CAS No.:	1884640-99-6
Molecular Formula:	C ₁₈ H ₁₅ N ₃ O ₃ S
Molecular Weight:	353.4
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	NI-42 (compound 13-d), a structurally orthogonal chemical probe for the BRPFs, is a biased, potent inhibitor of the BRD of the BRPFs (IC ₅₀ s of BRPF1/2/3=7.9/48/260 nM; K _d s of BRPF1/2/3=40/210/940 nM) with excellent selectivity over nonclass IV BRD proteins ^[1] .			
IC₅₀ & Target	BRPF1 7.9 nM (IC ₅₀)	BRPF2 48 nM (IC ₅₀)	BRPF3 260 nM (IC ₅₀)	BRPF1 40 nM (K _d)
	BRPF2 210 nM (K _d)	BRPF3 940 nM (K _d)	BRD4 (BD1) 4500 nM (IC ₅₀)	BRD7 82 nM (IC ₅₀)
	BRD9 310 nM (IC ₅₀)	BRD9 1130 nM (K _d)		
In Vitro	NI-42 shows IC ₅₀ s of 82, 310, and 4500 nM for BRD7, BRD9, and BRD4 (BD1), respectively, and has a K _d of 1130 nM for BRD9 ^[1] .			

REFERENCES

[1]. Igoe N, et al. Design of a Biased Potent Small Molecule Inhibitor of the Bromodomain and PHD Finger-Containing (BRPF) Proteins Suitable for Cellular and in Vivo Studies. *J Med Chem.* 2017 Jan 26;60(2):668-680.

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