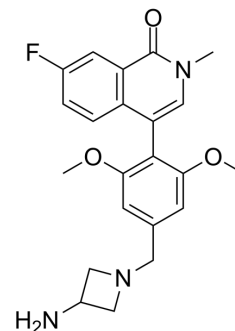


DN02

Cat. No.:	HY-148116		
Molecular Formula:	C ₂₂ H ₂₄ FN ₃ O ₃		
Molecular Weight:	397.44		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
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 : 5.56 mg/mL (13.99 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	2.5161 mL	12.5805 mL	25.1610 mL
	5 mM	0.5032 mL	2.5161 mL	5.0322 mL
	10 mM	0.2516 mL	1.2581 mL	2.5161 mL

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

BIOLOGICAL ACTIVITY

Description

DN02 is a potent, selective BRD8 bromodomain probe. DN02 has exhibits high affinity for the BRD8(1) ($K_i=32$ nM), which is 30-fold more affinity than BRD8 (2) ($K_i\approx 1000$ nM)^[1].

In Vitro

DN02 has (1 nM-100 μ M) low nM AlphaScreen with IC₅₀ value of 48 nM, with high selectivity over BRD9 and BRD4 in biochemical AlphaScreen assays^[1].
 DN02 (32 nM) has minimal off-target engagement across the bromodomain family, with modest activity against CBP/P300^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Remillard D, et, al. Chemoproteomics Enabled Discovery of Selective Probes for NuA4 Factor BRD8. ACS Chem Biol. 2021 Nov 19;16(11):2185-2192.

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

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