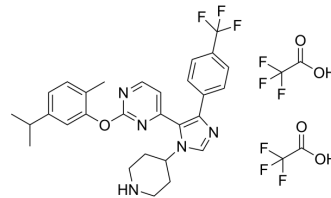


iBRD4-BD1 diTFA

Cat. No.:	HY-151594A
CAS No.:	2839318-20-4
Molecular Formula:	C ₃₃ H ₃₂ F ₉ N ₅ O ₅
Molecular Weight:	749.62
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (133.40 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.3340 mL	6.6700 mL	13.3401 mL
		5 mM	0.2668 mL	1.3340 mL	2.6680 mL
	10 mM	0.1334 mL	0.6670 mL	1.3340 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (3.34 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.34 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (3.34 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	iBRD4-BD1 diTFA is selective BRD4 bromodomain inhibitor. iBRD4-BD1 diTFA has inhibition activity for BRD4 bromodomain with an IC ₅₀ value of 12 nM. iBRD4-BD1 diTFA can be used for the research of inflammation and oncology ^[1] .
In Vitro	iBRD4-BD1 diTFA has affinity and selectivity for the BET-family BRD4-BD1 with an IC ₅₀ value of 12 nM ^[1] . iBRD4-BD1 diTFA has affinity and selectivity for the BET-family BRD4-BD2, BRD3-BD1, BRD3-BD2, BRD2-BD1 and BRD2-BD2 with IC ₅₀ values of 16 μM, 1.0 μM, 75 μM, 280 nM and 7.1 μM, respectively ^[1] . iBRD4-BD1 (0-50 μM; 72 h) diTFA has cytotoxicity with an EC ₅₀ value of 2.3 μM in MM.1S cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Anand Divakaran, et al. Development of an N-Terminal BRD4 Bromodomain-Targeted Degradator. *ACS Med Chem Lett.* 2022 Sep 29;13(10):1621-1627.

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

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