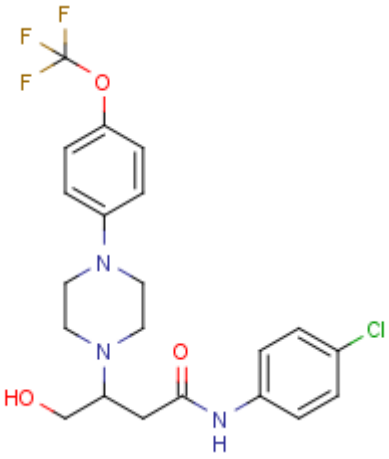
Name: VBIT-4 Cat#:EX-A5330

Structure



Chemical Name	N-(4-chlorophenyl)-4-hydroxy-3-(4-(4-(trifluoromethoxy)phenyl)piperazin-1-yl)butanamide

Molecular Weight	457.87	Storage	3 years -20°C powder 6 months -80°C in solvent
Formula	C21H23ClF3N3O3		
CAS No.	2086257-77-2	Synonyms	N/A

Solubility (25°C) *	In vitro	DMSO	92 mg/mL (200.93 mM)
		Ethanol	92 mg/mL (200.93 mM)
		Water	Insoluble
	In vivo (should be freshly prepared each time)		

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

Mass / Volume / Concentration	1 mg	5 mg	10 mg
1 mM	2.1840 mL	10.9201 mL	21.8403 mL
5 mM	0.4368 mL	2.1840 mL	4.3681 mL

10 mM	0.2184 mL	1.0920 mL	2.1840 mL
50 mM	0.0437 mL	0.2184 mL	0.4368 mL

Biological Activities:

Description	VBIT-4 is a voltage-dependent anion channel (VDAC) oligomerization inhibitor that decreases mitochondrial DNA (mtDNA) release, type I interferon (IFN) signaling, neutrophil extracellular traps, and disease severity in a mouse model of systemic lupus erythematosus.[1]

Targets	VDAC[1]	mtDNA[1]	IFN[1]
In vitro			
In vivo			
References	[1] Jeonghan Kim, et al. Science. 2019 Dec 20;366(6472):1531-1536.		