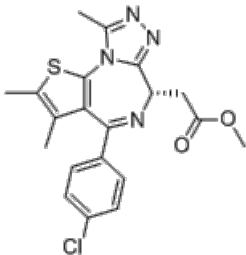


Product Name	: MS-417	
Synonyms	: GTPL-7512	
Cat No.	: M16583	
CAS Number	: 916489-36-6	
Molecular Formula	: C ₂₀ H ₁₉ ClN ₄ O ₂ S	
Formula Weight	: 414.91	
Chemical Name	Methyl 2-[(6S,Z)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl]acetate	
Description	MS-417 (GTPL-7512) is a highly specific BET bromodomain inhibitor that binds to BRD4-BD1 and BRD4 BD2 with K_d of 36.1 μM and 25.4 μM respectively; shows 100-200-fold weaker affinity for CBP, BRD7, or BPTF, and no binding affinity for many other bromodomains; blocks BRD4 binding to the acetylated NF-κB, effectively attenuates NF-κB transcriptional activation of proinflammatory genes in kidney cells treated with TNFα or infected by HIV; ameliorates inflammation and kidney injury in HIV-1 transgenic mice.	
Pathway	: Chromatin/Epigenetic	
Target	: Bromodomain	
Receptor	: Bromodomain	
Solubility	: Ethanol : 50 mg/mL 120.51 mM	
SMILES	: <chem>CC1=C(SC2=C1C(=N[C@H](C3=NN=C(N32)C)CC(=O)OC)C4=CC=C(C(=C4)Cl)C</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Zhang G, et al. J Biol Chem. 2012 Aug 17;287(34):28840-51. | 2. Boehm D, et al. Cell Cycle. 2013 Feb 1;12(3):452-62.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.