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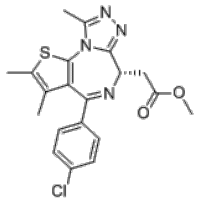
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MS417
Cat. No.	:	PC-62474
CAS No.	:	916489-36-6
Molecular Formula	:	$C_{20}H_{19}ClN_4O_2S$
Molecular Weight	:	414.908
Target	:	Bromodomain
Solubility	:	10 mM in DMSO



Biological Activity

MS417 (GTPL-7512) is a highly specific BET bromodomain inhibitor that binds to **BRD4-BD1** and **BRD4 BD2** with Kd of 36.1 uM and 25.4 uM respectively.
MS417 shows 100-200-fold weaker affinity for CBP, BRD7, or BPTF, and no binding affinity for many other bromodomains.
MS417 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.
MS417 ameliorates inflammation and kidney injury in HIV-1 transgenic mice.

References

Zhang G, et al. ***J Biol Chem.*** 2012 Aug 17;287(34):28840-51.

Boehm D, et al. ***Cell Cycle.*** 2013 Feb 1;12(3):452-62.

E-mail: tech@probechem.com