

# PFI-1

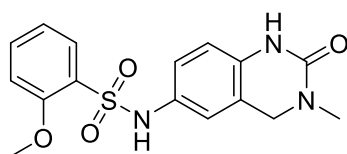
SYN-3041

2-methoxy-N-(3-methyl-2-oxo-1,2,3,4-tetrahydroquinazolin-6-yl)benzenesulfonamide

CAS Registry No.: 1403764-72-6

Smiles String:

COC1=CC=CC=C1S(=O)(=O)NC2=CC(CN3C)C(=O)N3



Molecular Weight: 347.39

Molecular Formula: C<sub>16</sub>H<sub>17</sub>N<sub>3</sub>O<sub>4</sub>S

Lot Number: Refer to vial

<sup>1</sup>H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

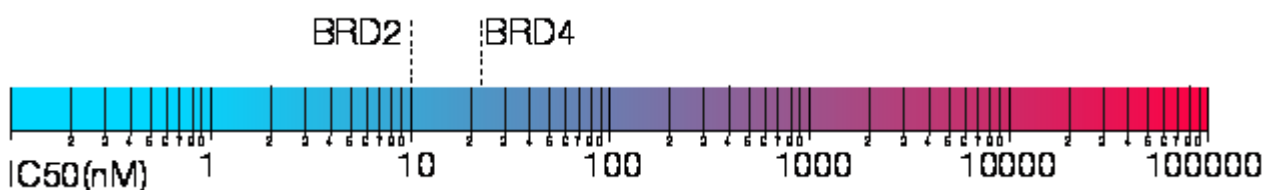
ES-MS: Available on request

## Description:

PFI-1 efficiently and selectively blocks the interaction of BET BRDs with acetylated histone tails. PFI-1 displaces histone 4 peptide acetylated at lysines K5, K8, K12 and K16 (H4K5acK8acK12acK16ac) with a potency (IC<sub>50</sub>) of 220 nM for BRD4 and 98 nM for BRD2.

Exposure of sensitive cell lines with PFI-1 results in G1 cell cycle arrest, down-regulation of MYC expression as well as induction of apoptosis and induces differentiation of primary leukaemic blasts.

## Biological Activity



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## Shipping and Storage Temperature

Shipping:  
Ambient

Storage:  
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

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## Solubility

Soluble in DMSO

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## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3474	3.4739	6.9478	17.369

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## References

1. Picaud S, Da Costa D, Thanasopoulou A, Filippakopoulos P, Fish PV, Philpott M, Fedorov O, Brennan P, Bunnage ME, Owen DR, Bradner JE, Tanriere P, O'Sullivan B, Müller S, Schwaller J, Stankovic T, Knapp S. PFI-1, a highly selective protein interaction inhibitor, targeting BET Bromodomains. *Cancer Res.* 2013 Jun 1;73(11):3336-46. doi: 10.1158/0008-5472.CAN-12-3292. Epub 2013 Apr 10. PubMed PMID: 23576556; PubMed Central PMCID: PMC3673830.

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## Ordering Information

To order more of this or any other SYNkinase compound, go to [synkinase.com](http://synkinase.com), Call us Toll Free (US Only) at 1- 877-854-6273 or email [orders@synkinase.com](mailto:orders@synkinase.com).

Product Datasheet (Rev. 1.1)