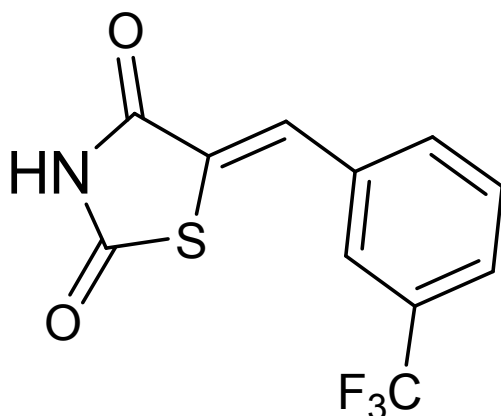


**SMI-4a**

**SYN-1113**



(Z)-5-(3-(trifluoromethyl)benzylidene)thiazolidine-2,4-dione

CAS Registry No.: 438190-29-5

Smiles String:

c1cc(cc(c1)C(F)(F)F)/C=C/2\C(=O)NC(=O)S2

Molecular Weight: 273.23

Molecular Formula: C<sub>11</sub>H<sub>6</sub>F<sub>3</sub>NO<sub>2</sub>S

Lot Number: Refer to vial

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

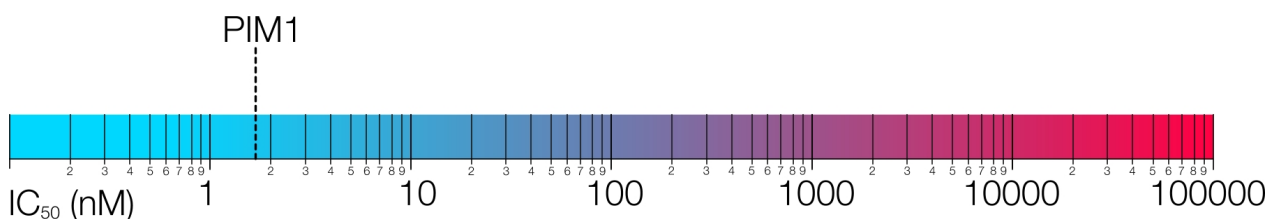
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

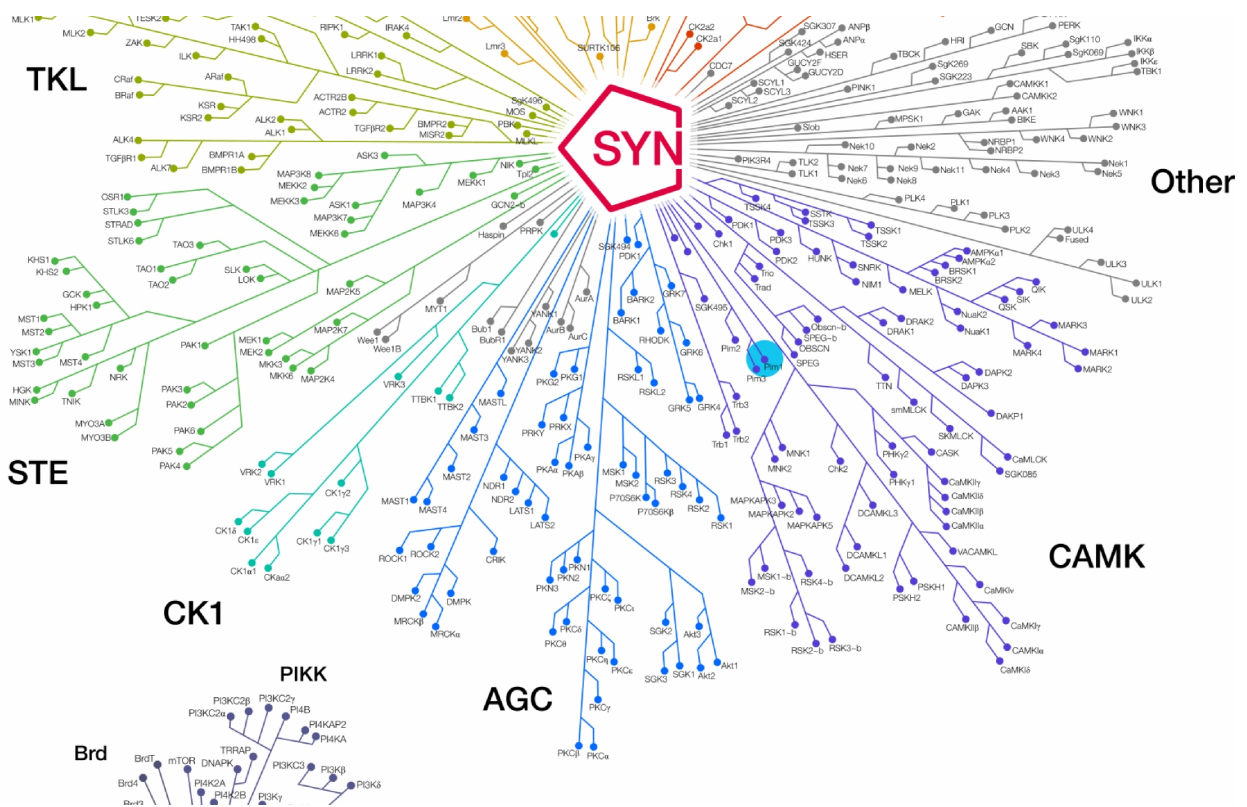
## Description:

SMI-4a is a novel, ATP-competitive inhibitor of Pim1 kinase (IC<sub>50</sub> of 17 nM). It kills a wide range of both myeloid and lymphoid cell lines.

## Biological Activity



# Kinome Mapping



## Shipping and Storage Temperature

**Shipping:**  
Ambient

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

## Solubility

DMSO 55mg/mL, Ethanol 32mg/mL

## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.2732	2.7323	5.4646	13.6615

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## References

1. Lin YW, Beharry ZM, Hill EG, Song JH, Wang W, Xia Z, Zhang Z, Aplan PD, Aster JC, Smith CD, Kraft AS. A small molecule inhibitor of Pim protein kinases blocks the growth of precursor T-cell lymphoblastic leukemia/lymphoma. *Blood*. 2010 Jan 28;115(4):824-33. doi: 10.1182/blood-2009-07-233445. Epub 2009 Nov 23.

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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)