

# JNJ-28312141

# SYN-1154

4-cyano-N-(2-cyclohexenyl-4-(1-(2-(dimethylamino)acetyl)piperidin-4-yl)phenyl)-1H-imidazole-2-carboxamide

CAS Registry No.: 885692-52-4

Smiles String:

CN(C)CC(=O)N1CCC(CC1)c2ccc(c(c2)C3=CCCCC3)NC(=O)c4[nH]cc(n4)C#N

Molecular Weight: 460.57

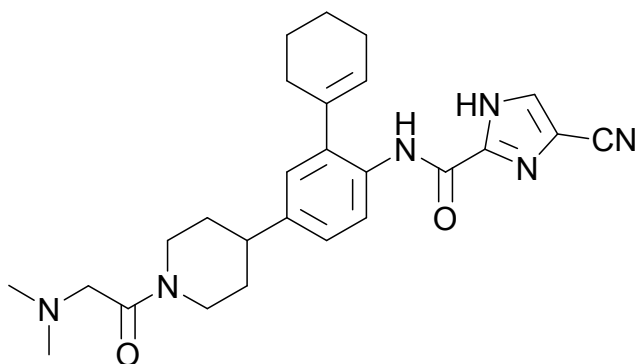
Molecular Formula: C<sub>26</sub>H<sub>32</sub>N<sub>6</sub>O<sub>2</sub>

Lot Number: Refer to vial

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

HPLC (Purity): > 95.0% @ 254 nm

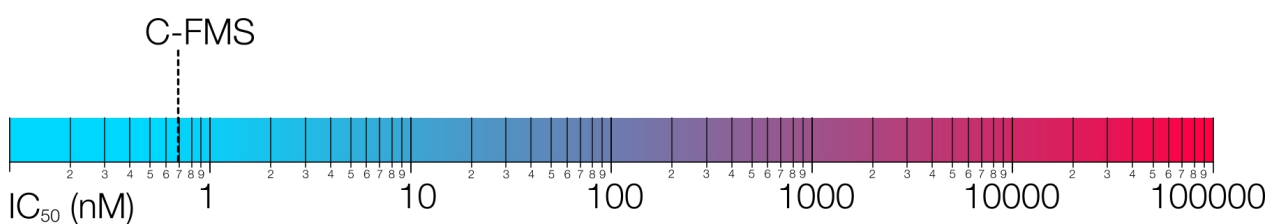
ES-MS: Available on request



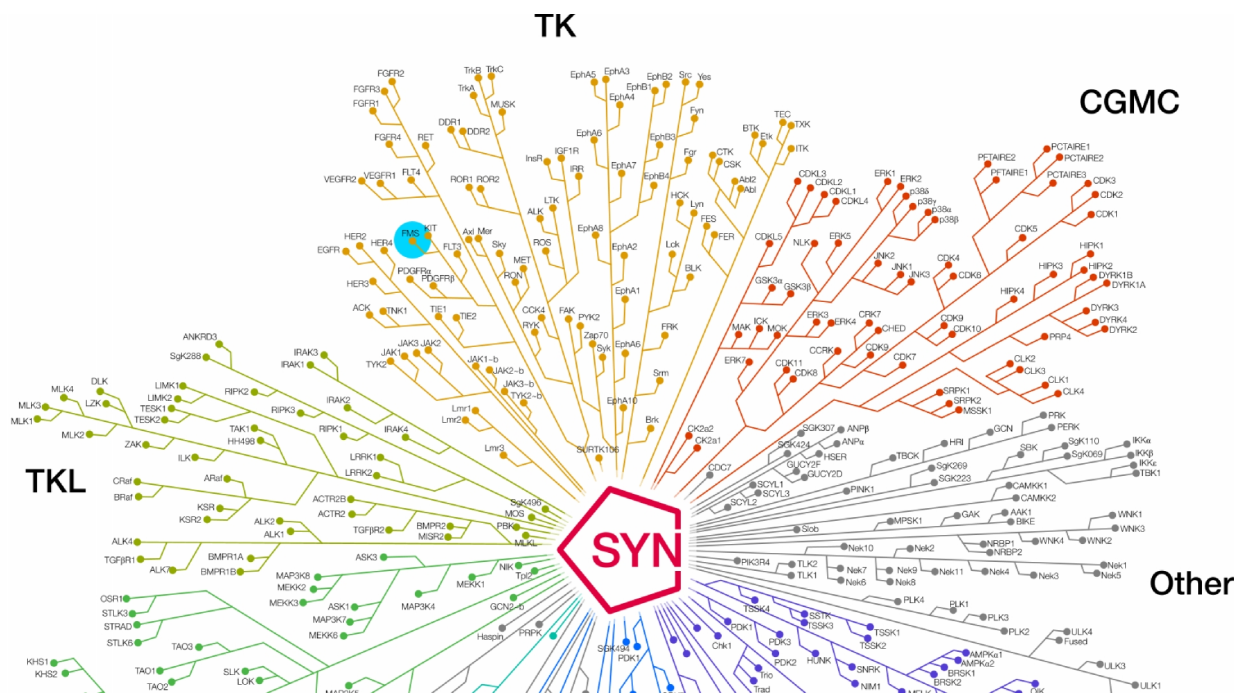
## Description:

JNJ-28312141 is an orally active tyrosine kinase inhibitor for FMS with an IC<sub>50</sub> of 0.69 nM and a cell assay IC<sub>50</sub> of 2.6 nM.

## 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 12mg/mL, Ethanol 4mg/mL

## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4606	4.6060	9.2120	23.0300

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## References

1. Manthey CL, Johnson DL, Illig CR, Tuman RW, Zhou Z, Baker JF, Chaikin MA, Donatelli RR, Franks CF, Zeng L, Crysler C, Chen Y, Yurkow EJ, Boczon L, Meegalla SK, Wilson KJ, Wall MJ, Chen J, Ballentine SK, Ott H, Baumann C, Lawrence D, Tomczuk BE, Molloy CJ. JNJ-28312141, a novel orally active colony-stimulating factor-1 receptor/FMS-related receptor tyrosine kinase-3 receptor tyrosine kinase inhibitor with potential utility in solid tumors, bone metastases, and acute myeloid leukemia. *Mol Cancer Ther.* 2009 Nov;8(11):3151-61. doi: 10.1158/1535-7163.MCT-09-0255. Epub 2009 Nov 3.

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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)