

N-(5-(1-(2,6-dichlorophenyl)-3-(difluoromethyl)-1H-pyrazol-5-yl)thiazol-2-yl)cyclopropanecarboxamide

**CAS Registry No.:** 1338247-35-0

**Smiles String:**

CC(C)C(=O)Nc1ncc(s1)c2cc(nn2c3c(ccc3Cl)Cl)C(F)F

**Molecular Weight:** 431.29

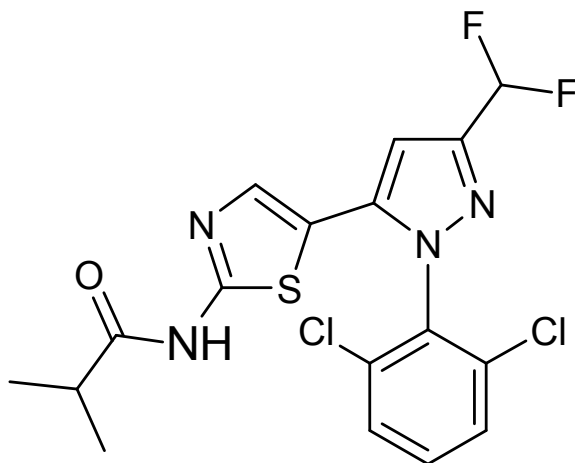
**Molecular Formula:** C<sub>17</sub>H<sub>14</sub>Cl<sub>2</sub>F<sub>2</sub>N<sub>4</sub>O<sub>S</sub>

**Lot Number:** Refer to vial

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

**HPLC (Purity):** > 95.0% @ 254 nm

**ES-MS:** Available on request



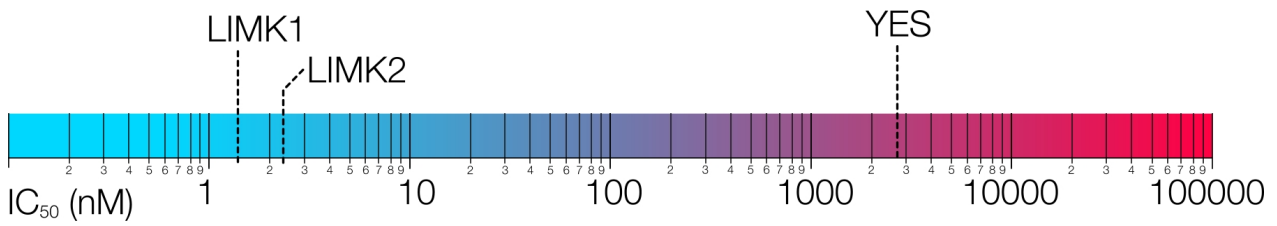
---

## Description:

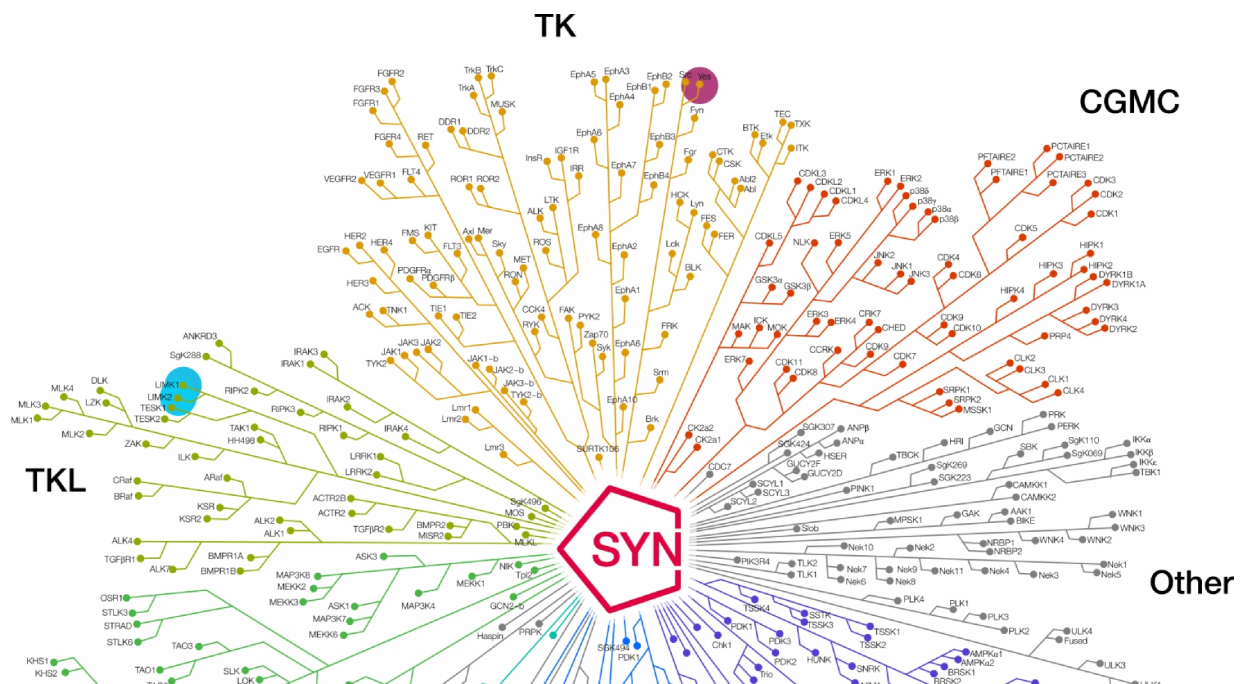
Kinases, such as LIM kinase 1 (LMK1) and LIM kinase 2 (LMK2), have been identified as participating in signal pathways affecting actin dynamics by deactivating cofilin. Over expression of LIMK1 has been found in invasive breast and prostate cancer cell lines and suppression of LIMK 2 expression has been found to limit migration of human fibrosarcoma cells. Thus, the inhibition of LIMK1 and/or LIMK2 enzymes have been suggested as targets for treating cancer, including reduction or prevention of metastasis.

BMS-5 is a potent inhibitor of the LIM kinase. It has IC<sub>50</sub> values of 7nM and 8 nM for LIMK1 and LIMK2 respectively. LIMK1/2 activity was measured via TCA precipitation assay using a biotinylated ADF (actin depolymerization factor) as the protein substrate and the kinase domains of LIMK1 and LIMK2 as the enzyme sources in the presence of 1 μM ATP.

## 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

15 mM in DMSO

---

## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4313	4.3130	8.6260	21.5650

---

## References

1. <http://www.google.com/patents/WO2006084017A2?cl=en>
2. <http://www.google.com/patents/WO2006084017A3?cl=en>

---

## 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)