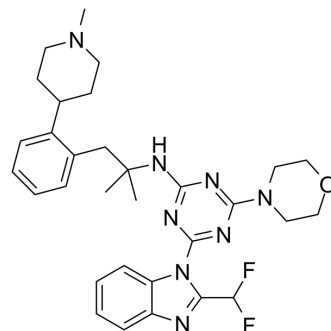


## Zandelisib

<b>Cat. No.:</b>	HY-109198		
<b>CAS No.:</b>	1401436-95-0		
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>38</sub> F <sub>2</sub> N <sub>8</sub> O		
<b>Molecular Weight:</b>	576.68		
<b>Target:</b>	PI3K		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 33.33 mg/mL (57.80 mM); ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7341 mL	8.6703 mL	17.3406 mL
5 mM	0.3468 mL	1.7341 mL	3.4681 mL
10 mM	0.1734 mL	0.8670 mL	1.7341 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.34 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution

### BIOLOGICAL ACTIVITY

<b>Description</b>	Zandelisib (ME-401) is a phosphatidylinositol 3-kinase (PI3K) inhibitor extracted from patent WO2019183226 A1, Compound Example 1. Zandelisib selectively inhibits p110δ with an IC <sub>50</sub> of 3.5 nM. Zandelisib functions as an antineoplastic <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PI3Kδ 3.5 nM (IC <sub>50</sub> )
<b>In Vitro</b>	Zandelisib inhibits PI3Ks with IC <sub>50</sub> s of 4, 976 nM, 605 nM, 817 nM and 3.5 nM for p110α, p110β, p110γ and p110δ, respectively [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Daniel P. Gold, et al. Combination therapy. WO2019183226A1.

[2]. David Brown, et al. (sulfinyl and sulfonyl benzimidazolyl) pyrimidines and triazines, pharmaceutical compositions thereof, and their use for treating proliferative diseases. WO2014055647A1.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA