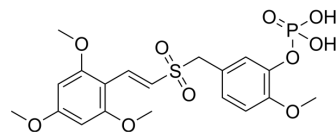


## Briciclib

<b>Cat. No.:</b>	HY-16366		
<b>CAS No.:</b>	865783-99-9		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>23</sub> O <sub>10</sub> PS		
<b>Molecular Weight:</b>	474.42		
<b>Target:</b>	Eukaryotic Initiation Factor (eIF); Autophagy		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 31 mg/mL (65.34 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1078 mL	10.5392 mL	21.0784 mL
	5 mM		0.4216 mL	2.1078 mL	4.2157 mL
	10 mM		0.2108 mL	1.0539 mL	2.1078 mL

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

### BIOLOGICAL ACTIVITY

<b>Description</b>	Briciclib (ON 014185) is a derivative of ON 013100, and has the potential in targeting eIF4E for solid cancers.
<b>IC<sub>50</sub> &amp; Target</b>	eIF4
<b>In Vitro</b>	Briciclib has the potential in targeting eIF4E. Briciclib shows inhibitory activity against the proliferation of mantle cell leukemia (EKO-1 and MINO), breast (MCF7 and MDA-MB-231), gastric (AGS), and esophageal (OE19, OE33, and FLO-1) cancer cell lines with GI <sub>50</sub> s of 9.8-12.2 nM, and with no toxicity on normal endothelial cells. Briciclib dose-dependently reduces the expression of cyclin D1 and c-Myc in breast and MCL cancer cell lines within 8 hours <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Neel Jasani, et al. Abstract 1649: Potent anticancer activity of an orally bioavailable small molecule, ON 013100, and its water soluble derivative, briciclib, a clinical-stage eIF4E-targeted agent. Cancer Research. August 2015, Volume 75, Issue 15.

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

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