

# Abemaciclib (methanesulfonate)

## **Catalog No: tcsc1229**

Available Sizes

Size: 5mg			
Size: 10mg			
<b>Size:</b> 50mg			
<b>Size:</b> 100mg			
<b>Size:</b> 200mg			
<b>Size:</b> 500mg			

Specifications

#### CAS No:

1231930-82-7

Formula:

 $C_{28}H_{36}F_2N_8O_3S$ 

Pathway:

#### **Target:**

CDK

#### Purity / Grade:

>98%

#### Solubility:

H2O :  $\geq$  250 mg/mL (414.80 mM)

#### **Alternative Names:**

LY2835219 (methanesulfonate)

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#### **Observed Molecular Weight:**

602.7

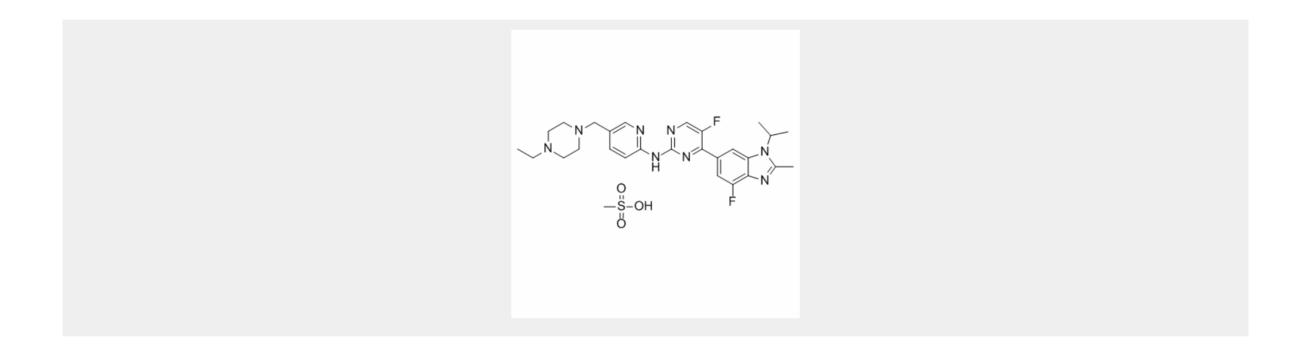
### **Product Description**

Abemaciclib (LY2835219) (methanesulfonate) is a selective **CDK4/6** inhibitor with **IC**<sub>50</sub>s of 2 nM and 10 nM for CDK4 and CDK6, respectively.

IC50 & Target: IC50: 2 nM (CDK4), 10 nM (CDK6)<sup>[3]</sup>

*In Vitro:* Abemaciclib (LY2835219) reduces cell viability with the IC<sub>50</sub> values ranging from 0.5  $\mu$ M to 0.7  $\mu$ M, inhibits Akt and ERK signaling but not mTOR activation at head and neck squamous cell carcinoma (HNSCC) cells<sup>[1]</sup>. Abemaciclib (LY2835219) shows inhibition on A375R1-4, M14R, and SH4R with EC<sub>50</sub> values ranging from 0.3 to 0.6  $\mu$ M; Abemaciclib inhibits the proliferation of the parental A375 and resistant A375RV1 and A375RV2 cells with similar potencies with IC<sub>50</sub> values of 395, 260, and 463 nM, respectively<sup>[2]</sup>. Abemaciclib (LY2835219) inhibits CDK4 and CDK6 with low nanomolar potency, inhibits Rb phosphorylation resulting in a G1 arrest and inhibition of proliferation, and its activity is specific for Rb-proficient cells<sup>[3]</sup>.

*In Vivo:* Abemaciclib (LY2835219) (45 mg/kg, p.o.) in combination with everolimus causes a cooperative antitumor effect in HNSCC xenograft tumor<sup>[1]</sup>. Abemaciclib (LY2835219) (45 or 90 mg/kg, p.o.) shows significant tumor growth inhibition in an A375 xenograft model<sup>[2]</sup>.



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