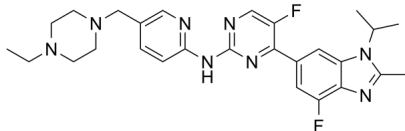


## Certificate of Analysis

Catalog Number	BP13326
Product Name	Abemaciclib

## Physical and Chemical Properties

Synonyms	LY2835219, CDK4/6 dual inhibitor
CAS No.	1231929-97-7
Chemical Formula	C <sub>27</sub> H <sub>32</sub> F <sub>2</sub> N <sub>8</sub>
Molecular Weight	506.606
Solubility	DMSO: 6 mg/mL(11.8 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	LY2835219 is an effective and specific CDK4/6 inhibitor (IC <sub>50</sub> : 2/10 nM).
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Targets&IC50	CDK4:2 nM, CDK6:10 nM
In vitro	LY2835219 reduces cell viability with the IC50 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. LY2835219 shows inhibition on A375R1-4, M14R, and SH4R with EC50 values ranging from 0.3 to 0.6 $\mu$ M; LY2835219 inhibits the proliferation of the parental A375 and resistant A375RV1 and A375RV2 cells with similar potencies with IC50 values of 395, 260, and 463 nM, respectively. 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.
In vivo	LY2835219 (45 mg/kg, p.o.) in combination with everolimus causes a cooperative antitumor effect in HNSCC xenograft tumor. LY2835219 (45 or 90 mg/kg, p.o.) shows significant tumor growth inhibition in an A375 xenograft model.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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