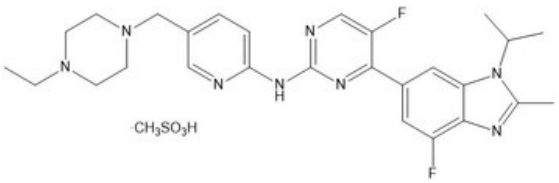
Tribioscience

# Abemaciclib, CDK 4/6 inhibitor

| Catalog | Unit |
|---|---|
| TBI4833-5MG | 5 mg |
| TBI4833-25MG | 25 mg |

## Product Details

**Formal Name:** N-[5-[(4-Ethylpiperazin-1-yl)methyl]pyridine-2-yl]-5-fluoro-4-(7-fluoro-2-methyl-3-propan-2-ylbenzimidazol-5-yl)pyrimidin-2-amine methanesulfonic acid salt
**Alternate Names:** LY2835219 mesylate
**Molecular Formula:** $C_{27}H_{32}F_2N_8 \cdot CH_3SO_3H$
**Formula Weight:** 602.70
**CAS Number:** 1231930-82-7
**Purity:** >98%
**Formulation:** powder
**Solubility:** Soluble in DMSO (up to at least 25 mg/ml) or in Water (up to at least 25 mg/ml)
**Storage:** -20°C
**Stability:** ≥ 1 year.




## Applications

CDK 4/6 inhibitor

## Functions

Potent and selective CDK4/6 inhibitor (IC50 = 2 nM and 10 nM respectively). Induces G1 cell cycle arrest in colo-205 colorectal cells, MDA-MB-361 breast cancer cells, and MV4-11 AML cells; also active in several human tumor xenograft models. Displays efficacy in patients with various solid tumors including breast cancer, non-small cell lung cancer, glioblastoma, melanoma, colorectal cancer, and hormone receptor-positive breast cancer. Abemaciclib induced a T cell inflamed tumor microenvironment and enhanced the efficacy of PD-L1 checkpoint blockade in MCF-7 breast cancer cells. FDA approved for the treatment of advanced breast cancers.

## Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml) or in Water (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20° for up to 1 month.

**For research use only.**