

Catalog	Unit
TBI4760-5MG	5 mg
TBI4760-25MG	25 mg

Product Details

Formal Name: 6-Acetyl-8-cyclopentyl-5-methyl-2-[[5-piperazin-1-yl]pyridine-2-yl]amino]-8H-pyrido[2,3-d]pyrimidin-7-one

Alternate Names: PD-332991

Molecular Formula: C₂₄H₂₉N₇O₂

Formula Weight: 447.53

CAS Number: 571190-30-2

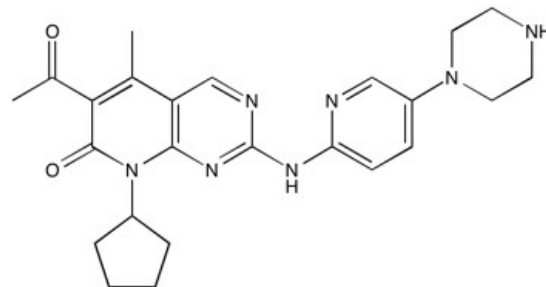
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 2 mg/ml with warming)

Storage: -20°C

Stability: ≥ 1 year.



Applications

CDK4 / CDK6 inhibitor

Functions

Potent and selective inhibitor of Cdk4, IC₅₀ = 11 nM and Cdk6, IC₅₀ = 16 nM. Inhibits phosphorylation of Rb protein and cell cycle progression through G1 in primary 5T33MM cells and sensitized these cells to killing by a proteasome inhibitor (bortezomib) in mouse models. Induces autophagy and senescence in AGS gastric cancer cells. Clinically useful breast cancer agent. Cell cycle inhibitors boost tumor immunogenicity.

Application Procedures

First dissolved in DMSO (up to 2 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.