Product Specification Sheet

Product Name: PD0332991
Catalog Number: C7306-2 (powder)
               C7306-2s (10mM in DMSO)
Package Size: 2 mg

Technical information:
Chemical Formula: C_{24}H_{29}N_{2}O
CAS #: 571190-30-2
Molecular Weight: 447.53
Purity: >98%
Formulation: White solide
Solubility: Soluble in DMSO up to 100 mM
Chemical Name: 6-acetyl-8-cyclopentyl-5-methyl-2-((5-(piperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one
Storage: Store solid powder at 4°C desiccated;
         Store DMSO solution at -20°C.

Handling:
- For C7306-2 (powder), add 447 uL of DMSO to make 10 mM solution.
- For C7306-2s, before open the vial, centrifuge the vial at 500rpm x 1 min
  in a 50 mL conical tube to ensure full recovery of sample.

Biological Activity: PD 0332991 is a highly specific inhibitor of cyclin-dependent kinase 4 (CdK4) (~0.011 μM) and CdK6 (~0.016 μM), having no activity against a panel of 36 additional protein kinases. PD0332991 causes elimination of phospho-Rb and the proliferative marker Ki-67 in tumor tissue and downregulation of genes under the transcriptional control of E2F. It has showed significant inhibition in a broad spectrum of human tumor xenografts in vivo.

Reference:

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