#13101 Store at -20C

NVP-BEZ235



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5 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background NVP-BEZ235 is a selective and potent dual inhibitor of PI3 kinase and mTOR Ser/Thr protein kinase.

Research studies show that NVP-BEZ235 reversibly inhibits the catalytic activity of these kinases by competing with ATP at the ATP-binding site (1,2). Studies demonstrate that NVP-BEZ235 has anti-proliferative characteristics and induces cell cycle arrest during G_0/G_1 phase through inhibition of CDK4

and cyclin D3 (2,3).

Molecular Formula C₃₀H₂₃N₅O

Molecular Weight 469.54 g/mol

Purity >99%

CAS 915019-65-7

Solubility Soluble in anhydrous DMF at 10mg/ml and DMSO at 1.33mg/ml.

Storage Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24

months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple

freeze/thaw cycles.

Directions for Use: NVP-BEZ235 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute the 5 mg in 1.065 ml

DMF and warm to 75°C for 5 minutes. Working concentrations and length of treatment can vary depending

on the desired effect, but it is typically used at 5 nM-500 nM for 2-24 hr.

Background 1. Serra, V. et al. (2008) *Cancer Res* 68, 8022-30.

References 2. Yang, S. et al. (2011) *PLoS One* 6, e26343.

3. Schult, C. et al. (2012) Anticancer Res 32, 463-74.

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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