

Product Name	: Dactolisib
Synonyms	: NVP-BEZ235; BEZ-235
Cat No.	: M16571
CAS Number	: 915019-65-7
Molecular Formula	: C ₃₀ H ₂₃ N ₅ O
Formula Weight	: 469.54
Chemical Name	: Benzeneacetonitrile, 4-[2,3-dihydro-3-methyl-2-oxo-8-(3-quinolinyl)-1H-imidazo[4,5-c]quinolin-1-yl]-.alpha.,.alpha.-dimethyl-
Description	: A potent, dual ATP-competitive pan-class I PI3K and mTOR inhibitor for p110α/γ/δ/β and mTOR(p70S6K) with IC ₅₀ of 4 nM /5 nM /7 nM /75 nM /6 nM, respectively; effectively and specifically blocks the dysfunctional activation of the PI3K pathway, inducing G(1) arrest; demonstrates antitumor activity in in vivo models of human cancer. Kidney Cancer Phase 2 Discontinued
Pathway	: PI3K/Akt/mTOR signaling
Target	: PI3K
Receptor	: ATR;mTOR(p70S6K);p110α;p110γ;p110δ;p110β
Solubility	: DMSO: 8.75 mg/mL
SMILES	: CC(C1=CC=C(N(C2=C3C=NC4=CC=C(C5=CC6=CC=CC=C6N=C5)C=C24)C(N3C)=O)C=C1)(C)C#N
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Maira SM, et al. Mol Cancer Ther. 2008 Jul;7(7):1851-63. | 2. Serra V, et al. Cancer Res. 2008 Oct 1;68(19):8022-30. | 3. Schnell CR, et al. Cancer Res. 2008 Aug 15;68(16):6598-607.