

**Product Name** : NVP-BAG956

**Synonyms** : BAG 956

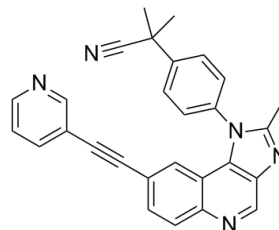
**Cat No.** : M16200

**CAS Number** : 853910-02-8

**Molecular Formula** : C<sub>28</sub>H<sub>21</sub>N<sub>5</sub>

**Formula Weight** : 427.50

**Chemical Name** : Benzeneacetonitrile, α,α-dimethyl-4-[2-methyl-8-[2-(3-pyridinyl)ethynyl]-1H-imidazo[4,5-c]quinolin-1-yl]-



**Description** : NVP-BAG956 (BAG956) is a potent, dual PDK-1/PI3K inhibitor with IC<sub>50</sub> of 245/56/446/35/117 nM for PDK1/p110α/p110β/p110δ/p110γ, respectively; inhibits p-T308-PKB U87MG cells with IC<sub>50</sub> of 45 nM in ELISA assays, shows anti-proliferative activity with EC<sub>50</sub> of 143 nM; blocks AKT phosphorylation induced by BCR-ABL-, and induces apoptosis of BCR-ABL-expressing cell lines and patient bone marrow cells at concentrations that also inhibit PI3K signaling; demonstrates against BCR-ABL expressing cells both in vitro and in vivo, BAG956 is effective against mutant FLT3-expressing cell lines and AML patient bone marrow cells.

**Pathway** : PI3K/Akt/mTOR signaling

**Target** : PI3K

**Receptor** : PI3K

**Solubility** : 10 mM in DMSO

**SMILES** : c1cc(c(cc1CCCNCCCC)C(=O)N)CC23CC4CC(C2)CC(C4)C3Cl

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Stauffer F, et al. Bioorg Med Chem Lett. 2008 Feb 1;18(3):1027-30.