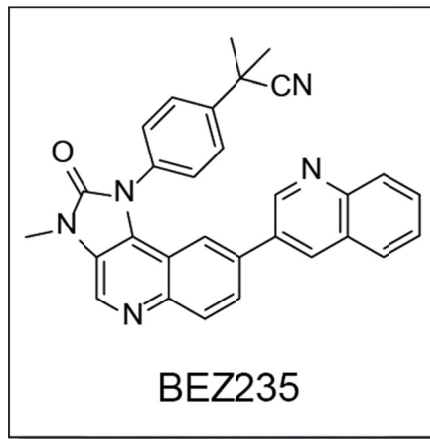




## Product Specification Sheet

<b>Product Name:</b>	BEZ235
<b>Catalog Number:</b>	C2392-2 (powder) C2392-2s (10 mM in DMSO)
<b>Package Size:</b>	2 mg
<b>Technical information:</b>	
Chemical Formula:	C <sub>30</sub> H <sub>23</sub> N <sub>5</sub> O
CAS #:	915019-65-7
Molecular Weight:	469.54
Purity:	>98%
Formulation:	Pale white solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	2-methyl-2-(4-(3-methyl-2-oxo-8-(quinolin-3-yl)-2,3-dihydro-1H-imidazo[4,5-c]quinolin-1-yl)phenyl)propanenitrile
Storage:	Store solid powder at 4°C desiccated, protect from light; Store DMSO solution at -20°C.
<b>Handling:</b>	1. For C2392-2 (powder), add 426 $\mu$ L of DMSO to make 10 mM solution. 2. For C2392-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.
<b>Biological Activity:</b>	BEZ235 (NVP-BEZ235) is a dual inhibitor of the PI3K and the downstream mammalian target of rapamycin (mTOR) by binding to the ATP-binding cleft of these enzymes. It inhibited the activation of the downstream effectors Akt, S6 ribosomal protein, and 4EBP1 in breast cancer cells. For Class I PI3K family, its biochemical IC <sub>50</sub> is 4nM against p110 $\alpha$ , 75nM against p110 $\beta$ , 7nM against p110 $\sigma$ , 5nM against p110 $\gamma$ . Quantification of S473-Akt and T308P-Akt levels by ELISA revealed that 50% reduction occurred at a compound concentration of 8.0 nM and 30 nM.
<b>Reference:</b>	1. Sauveur-Michel Maira et al. Identification and characterization of NVP-BEZ235, a new orally available dual phosphatidylinositol 3-kinase/mammalian target of rapamycin inhibitor with potent in vivo antitumor activity. <i>Mol. Cancer Ther.</i> 7: 1851 (2008). 2. Violeta Serra et al. NVP-BEZ235, a Dual PI3K/mTOR Inhibitor, Prevents PI3K Signaling and Inhibits the Growth of Cancer Cells with Activating PI3K Mutations. <i>Cancer Res.</i> 68: 8022 (2008).



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*For research only, not for clinical or diagnostic use.*