

Product Data Sheet

Product Name: NVP 231

Cat. No.: GC13566

Chemical Properties

Cas. No. 362003-83-6

Chemical Name N-(2-benzamido-1,3-benzothiazol-6-yl)adamantane-1-carboxamide

SMILES C1C2CC3CC1CC(C2)(C3)C(=O)NC4=CC5=C(C=C4)N=C(S5)NC(=O)C6=CC=CC=C6

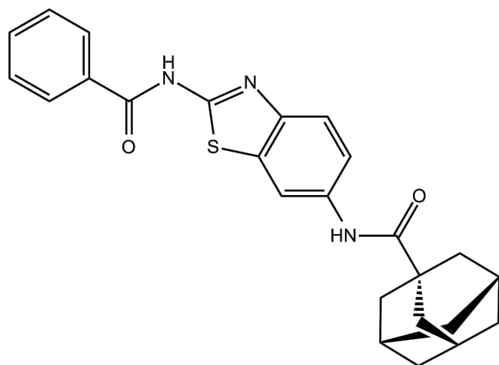
Formula C₂₅H₂₅N₃O₂S M.Wt 431.55

Solubility ≥ 87.6 mg/mL in DMSO with ultrasonic, ≥ 2.58 mg/mL in EtOH with ultrasonic and warming Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

NVP 231 is a potent, reversible and specific inhibitor of ceramide kinase (CerK) with the IC₅₀ value of 12±2 nM in radio assay [1].

NVP 231 has been noted to inhibit CerK with the IC₅₀ value of 12±2 nM and have the 90% inhibition at 100 nM in the radio assay. In addition, NVP 231 has been reported to compete with ceramide with

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the K_i value of 7.4 nM. Furthermore, NVP 231 has been revealed to achieve complete inhibition of CIP at 100nM. NVP 231 in an assay based on human CerK-overexpressing COS-cells (COS-CerK). And the study has been exhibited that NVP 231 is a more potent inhibitor of mouse CerK. Apart from these, NVP 231 has been shown the specificity to CerK with the IC₅₀ values of 0.01 μ M, 100 μ M, >100 μ M, 5 μ M, >25 μ M, >25 μ M, >10 μ M, >10 μ M and >10 μ M for hCerK, hSphK1, hSphK2, hDAGK α , hPI3K α , hVps34, hGCS, hSMS-1 and CERT, respectively [1].

References:

[1]Graf C1, Klumpp M, Habig M, Rovina P, Billich A, Baumruker T, Oberhauser B, Bornancin F. Targeting ceramide metabolism with a potent and specific ceramide kinase inhibitor. Mol Pharmacol. 2008 Oct;74(4):925-32.

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