

NVP-231, Ceramide kinase inhibitor

Catalog	Unit
TBI4694-5MG	5 mg
TBI4694-25MG	25 mg

Product Details

Formal Name: N-[2-(Benzoylamino)-6-benzothiazolyl]tricyclo[3.3.1.1^{3,7}]decane-1-carboxamide

Molecular Formula: C₂₅H₂₅N₃O₂S

Formula Weight: 432.00

CAS Number: 362003-83-6

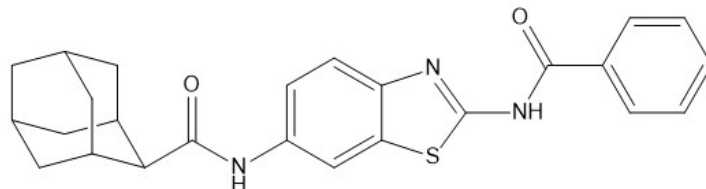
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Ceramide kinase inhibitor

Functions

NVP-231 is a reversible inhibitor of ceramide kinase (IC₅₀ = 12 nM). At 10 nM, it inhibited ceramide-1-phosphate formation by >50% and at 100 nM it completely inhibited its formation in cell culture. NVP-231 was inactive against hSphK1/2, hPI3Ka, hPI4Kb, hVps34, hGCS, hSMS-1, CERT, and 500-fold less potent against hDAGKa. NVP-231 inhibited breast and lung cancer cell proliferation via M phase arrest. It potently blocked cell migration and invasion in PANC-1 pancreatic cancer cells as well as MDA-MB-231 breast cancer cells.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.