**PRODUCT INFORMATION**

**NVP-231**

*Item No. 13858*

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**CAS Registry No.:** 362003-83-6

**Formal Name:** N-[2-(benzoylamino)-6-benzothiazolyl]-tricyclo[3.3.1.13,7]decane-1-carboxamide

**MF:** C\textsubscript{25}H\textsubscript{25}N\textsubscript{3}O\textsubscript{2}S

**FW:** 431.6

**Purity:** ≥98%

**UV/Vis.:** \( \lambda_{\text{max}} \): 224, 316 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** ≥2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

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**Laboratory Procedures**

NVP-231 is supplied as a crystalline solid. A stock solution may be made by dissolving the NVP-231 in the solvent of choice. NVP-231 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of NVP-231 in these solvents is approximately 1, 12, and 20 mg/ml, respectively.

**Description**

NVP-231 is a potent and reversible inhibitor of ceramide kinase (IC\textsubscript{50} = 12 nM).

- It is selective for ceramide kinase over SPHK1, SPHK2, DAGKa, PI3Ka, PI4Kb, VPS34, GCS, SMS-1, and CERT (IC\textsubscript{50} = >5 mM).
- NVP-231 inhibits formation of ceramide-1-phosphate (C1P; IC\textsubscript{50} = 10 nM) and cell death in ceramide kinase overexpressing COS cells (COS-CerK). It also inhibits C1P formation and tube formation in murine dermal microvascular endothelial cells when used at a concentration of 100 nM.

**References**